



University
of
St Andrews

2009-10

Honours Level Course Catalogue

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UNIVERSITY OF ST ANDREWS

Session Dates 2009-2010

Pre-Sessional Week:	Week commencing Monday 21st September 2009
Martinmas Semester:	Monday 28th September 2009 – Friday 22nd January 2010
Reading Week:	Week commencing Monday 9th November 2009
Raisin Monday:	Monday 23rd November 2009
Graduation:	Monday 30th November 2009 (no teaching)
Christmas Vacation:	Saturday 19th December 2009 – Monday 4th January 2010
Revision Period:	Commences Tuesday 5th January 2010
Examinations:	Monday 11th January 2010 – Wednesday 20th January 2010
Candlemas Semester:	Monday 8th February 2010 – Friday 28th May 2010
Spring Vacation:	Saturday 27th March 2010 – Sunday 11th April 2010
May Day Holiday:	Monday 3rd May 2010
Revision Period:	Commences Saturday 8th May 2010
Examinations:	Saturday 15th May 2010 – Wednesday 26th May 2010
Graduation:	Tuesday 22nd June 2010 – Friday 25th June 2010
Re-Assessment Diet	
Medicine:	Monday 30th August 2010 – Friday 3rd September 2010
Others:	Monday 6th September 2010 – Thursday 9th September 2010

N O T E

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in the UG Sponsio Academica
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St Andrews is an ECTS and SCOTCATS University.

Except in the case of certain language skills modules, the language of instruction and assessment is English.

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Introduction to the Course Catalogue

The purpose of this Catalogue is to provide students with the information they need in order to choose the courses or combination of courses most suited to their academic interests and abilities. The **General Guidance** section describes, in more accessible terms, the processes and procedures which are formalised in the Regulations. You should pay particular attention to the information it provides about the procedure by which you will be advised into the courses you wish to take.

The main body of the Catalogue, the Programmes and Modules (sections 4 – 23), provides information on how Honours degrees are constructed and information about the modules which may or must be taken as part of those degrees. This section of the Catalogue is structured in relation to the modules and degree programmes which are offered by eighteen Schools in the University. Each School entry contains:-

- (i) a list of the Single Honours, Joint Honours, "With" degrees and Interdisciplinary degrees offered by the School;
- (ii) the requirements for the programmes which lead to those degrees;
- (iii) details of the 3000-level, 4000-level and, where applicable 5000-level modules, including their credit values.

In addition, there is a section for Interdisciplinary Modules (section 23).

Explanation of Fields in Module entries

Module number and Title – first entry – self explanatory

Credits. The number of “points” a specific module counts towards a recognised degree programme. Must be used alongside the “level” of academic content in the module. A student’s studies towards a degree will be structured in terms of modules, each of which is assigned a credit value; so, for example, First or 1000 level modules in the School of Art History are worth 20 credits.

Semester. The Semester or Semesters in which the module is taught, where ‘either’ means that the module is taught in both semesters, being offered twice, and ‘whole year’ means that it is taught once only, throughout the two semesters.

Availability. If the module is offered in only one of the next two years, a date will be shown in this field. If a module is taught every year, there will be no availability line.

Prerequisites. Second semester modules and those above 2000 level may have prerequisites reflecting the assumption that they build upon previous knowledge gained. So, for example, the prerequisite for entry to Second level modules in French is a pass in either or both of the First level modules. In the case of certain modules, largely 1000 level, prerequisites may be framed in terms of specified passes at Higher or A level. The Head of the School has the authority to waive a prerequisite. Where the prerequisite is not simply a pass in another module, but includes a grade - eg ‘11.0 or better’ - the number refers to the **20-point reporting scale**.

Co-requisite. A module which must be taken in the same **semester** or session as the one listed.

Anti-requisite. Students will not be allowed to take the module shown in this field if they have already passed or wish to take the module which indicates the anti-requisite (e.g. looking at entry for MT4532 which indicates MT3832 is an anti-requisite – cannot take both).

Description. A brief statement of the content of a **module**.

Class Hour. All 1000 and 2000 level modules are taught at a set hour, although additional tutorial times and practical times may need to be arranged. If days of the week are not specified, the class meets every day from Monday to Friday, with the usual exception of Wednesday afternoons.

Teaching. This will be an indication of the weekly teaching provision for each student. The normal teaching period will be of one hour unless indicated otherwise. Where the pattern of teaching varies from week to week, the average weekly load is given. A tutorial is a discussion class of typically ten or fewer students; a seminar is typically a larger group, but will also involve student contributions and discussion.

Assessment. A brief statement of the distribution between continuous assessment and formal examination.

Re-Assessment. This gives details of the reassessment procedure for students who fail a module (normally 1000 and 2000 level modules only).

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Glossary of other Commonly used Terms

20-point reporting scale. This is a scale from 0 to 20.0 used for recording the grade achieved in the assessment of a module. Pass grades are 7.0 to 20.0 and fail grades are 0 to 6.9

Advanced Standing Credit. This term is used in relation to entrant students who may be awarded Advanced Standing Credit into the second year of one or more identified degree programmes on the basis of qualifications already earned. Advanced Standing Credits may be withdrawn if the student does not progress in the degree programme for which the credits were awarded. See also Recognition of Prior Learning.

Advising. The process of having a student's choice of modules checked and formally approved.

Certificate of Higher Education. Available to a student who has gained at least 120 credits and wishes to leave the University with a recognised qualification.

Credit Loads. Normally a full-time student will take modules worth 120 credits during the course of each **session**. Full-time students should take at least 80 credits and under no circumstances more than 160 credits. Part-time students must take at least 20 credits per **semester** and no more than 80 credits each **session**.

Credit Transfer. This refers to the ability of students to transfer credits earned in one institution to another one, in order to continue their studies. See also European Credit Transfer System; Recognition of Prior Learning.

Diploma of Higher Education. Available to a student who has gained at least 240 credits, including at least 80 credits at 2000 level, and wishes to leave the University with a recognised qualification.

Entrance requirements. For students applying for admission to degree courses, there are general entrance requirements. For Undergraduates, these are normally based on school-leaving qualifications, and normally require a pass in English. In addition, specific courses may require qualifications in designated subject areas; Admissions Officers in Schools are responsible for making sure that there is evidence that applicants are capable of pursuing their chosen degree programme.

European Credit Transfer System. All modules in this Catalogue have an accreditation in the ECTS scheme. Since St Andrews operates on an annual load of 120 credits and ECTS one of 60 credits, credits transferred to the other institution will be exactly half of the credits shown for each module. The grade for each module will be calculated according to established ECTS procedures and, therefore, it will not necessarily be the same as a grade for a module awarded by this University. A more detailed explanation of the procedures relating to ECTS students is given as Appendix 1 to this Introduction (page x.4).

Exit Points. All graduating students are admitted initially for either an Honours degree or a General degree. There are however two other **exit points** for students who for whatever reason do not proceed to the Honours or General degree, but wish to leave the University with a recognised qualification. They are the **Certificate of Higher Education** and the **Diploma of Higher Education**.

Faculty. There are four faculties - Arts, Divinity, Medicine and Science. Arts and Divinity however are treated as a single entity for administrative purposes although Divinity degrees have a discrete set of regulations and requirements. Several Schools belong both to the Arts and Science Faculties, and may offer both B.Sc. and M.A. degrees, governed by the relevant Science or Arts degree regulations.

General Degree. General requirements are 360 credits over a period of normally three years, and not more than four (or part-time equivalent); 80 credits are required at 2000 level; 60 are required at 3000 level. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying toward either a B.Sc., B.Eng. or an M.A. degree.

Grades. A student who passes a **module** will have gained both **credits**, reflecting the workload of the module, and a **grade**, reflecting the quality of a student's work. The grade is recorded on the **20-point reporting scale**.

Honours Degree. This degree is awarded to a student who over a period of normally four years and no more than five years (or the equivalent period of part-time study) gains at least 480 credits. The course of study for the degree is in two parts; in the first, usually over a period of two but not more than three years (or the equivalent period of part-time study), the student gains 240 credits, including passes in at least 80 credits in 2000 level modules. On the basis of performance in the 2000 level modules, a student will be admitted to the second period of study, consisting of two years in an **Honours Programme**, leading to a Single, Joint, "With" or Interdisciplinary degree. The Honours Programme normally involves the study of modules worth at least 240 credits, of which at least 210 will be in Honours modules (also referred to as 3000, 4000 or occasionally 5000 level modules).

Some Honours Programmes require all 240 credits to be in Honours modules of the subject(s) of the Programme, while others require a minimum of 210 credits in Honours modules in the subject(s) of the Programme. In the latter

case, a student, with the permission of the Head of School, may take 30 credits in First and/or Second level modules ('dip down') or 30 credits in an Honours module or module(s) outwith the Programme ('dip across'). The M.Chem., M.Eng., M.Math., M.Phys., M.Sci., B.Sc. (with Integrated Year Abroad), M.A. (with Integrated Year Abroad) typically take a total of five years to complete, and along with B.D. degrees (which take 3 years to complete) are the exceptions to the 240 credit requirement for Honours Programmes. The relevant School entry should be consulted.

Honours Programme. The Honours Programme is that part of the degree programme to which the student is admitted after satisfying the 1000 and 2000 level **prerequisites**. It normally comprises 3000 level modules and above. The duration of the Honours Programme is 2 years in the case B.Eng., B.Sc, M.A. and M.Theol. degrees or 3 years in the case of B.Sc./M.A. with Integrated Year Abroad, M.Chem., M.Eng., M.Math., M.Phys. and M.Sci..

Joint degrees. These are degrees where the required credits for the first subject and the required credits for the second subject are typically 50% in each subject (120:120). The proportions can vary so long as the ratio remains lower than 2:1 (for example, credit distributions of 155:85, 140:100, or 120:120). Ratios above 2:1 (where no fewer than one-quarter and no more than one-third of the credits are taken in one of the two subject areas) are defined as "With" rather than "Joint" degrees (see below). Degrees where a second subject is studied for less than one-quarter of the total credits are classified as **Single Honours Degrees**.

Leave of Absence normally for periods of up to 2 years may be granted on medical or personal grounds by Faculty Business Committee. Applications to take Leave of Absence should be submitted to the relevant Faculty ProDean. In particular circumstances Leave of Absence can be granted retrospectively (Discount of Semester). Students should request Leave of Absence if they are unable to attend University for more than three consecutive weeks.

Levels. There are five **Levels** of modules; 1000, 2000, 3000, 4000 and 5000. Normally the right of entry to a module is conditional upon a pass in one or more modules taken at a lower level of study. Thus, although the teaching, learning and **assessment** for a module may be self-contained, modules do not as a rule stand independent of each other.

Major Degree Programme. The first named subject in a "**With**" degree programme (see definition below) is described as a **Major Degree** element and is presented using the term 'with' between the subjects; e.g. Spanish with Geography (180 credits in Spanish at 3000 level and above and 60 credits in Geography = Spanish Major degree programme).

Minor Degree Programme. The second named subject in a "**With**" degree programme (see definition below) is described as a **Minor Degree** element and is presented using the term 'with' between the subjects; e.g. Spanish with Geography (180 credits in Spanish at 3000 level and above and 60 credits in Geography = Geography Minor degree programme).

Module. Degree programmes are modular in structure. The key elements of a module are **credit**, **level** of study, title, **description** of content, **assessment** requirements, and **availability** (session and semester). Other elements include class teaching hour, contact point, transferable skills, learning outcomes etc. Each module will be a self-contained unit of teaching, learning and assessment. For the majority of modules the teaching will take place in one 12-week teaching block, usually broken by a reading week or vacation, and in most cases will be followed by an examination. Others will be concentrated into a shorter period, and some will be taught over two **semesters**.

Pre-Advising. The process of making a preliminary choice of modules for the following session. This process is not complete until formal **Advising** has taken place.

Programme Requirements. The combination of modules required in order to be awarded a qualification.

Programme Prerequisites. Sub-honours requirements for entry to designated honours courses. May include specific modules, grades for specific modules, credits from a range of designated modules.

Qualifications. Each type of qualification - eg M.A. or B.Sc. - is governed by a set of Senate Regulations, and is awarded under a specific Court Resolution. Only the taught courses require a generic programme specification published using the Scottish Credit and Qualifications Framework (SCQF). -

- The Faculty of Arts may award (undergraduate) M.A. General and Honours degrees. There is also a **Licentiate of Integrated European Studies** (see page x.5), taken by European students in Modern Languages.
- The Faculty of Divinity may award (undergraduate) General and Honours M.Theol. and B.D. Honours degrees.
- The Faculty of Medicine may award (undergraduate) B.Sc. Honours - Medicine degrees.
- The Faculty of Science may award (undergraduate) General and Honours B.Sc. degrees; more intensive M.Chem., M.Eng., M.Math., M.Sci. and M.Phys. degrees; and B.Eng. and M.Eng. degrees jointly with the University of Dundee.

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RPL - Recognition of Prior Learning (RPL) is the recognition by the University of St Andrews, for its academic purposes, of prior learning that has taken place elsewhere. RPL may facilitate admission to a degree programme (undergraduate or postgraduate); provide advanced standing on a programme, or lead to the award of credit to count towards a programme's requirements. RPL may be as a result of Certificated Learning (RPCL) or Experiential Learning (RPEL).

Semester. The academic **session** is divided into two distinct teaching units called **semesters**. Semester 1 runs from September to January, Semester 2 runs from February to May.

Session. A session is a full academic year (September to September), comprising two **semesters** and the summer break.

Single Honours Degrees. These are degrees where credits for an Honours programme are obtained predominantly in one subject. Flexibility at Honours level, means that one or two modules (less than 60 credits total) may occasionally be taken outwith the named subject area. The second subject in these cases is not named in the Degree and the degrees are still classified as Single Honours Degrees. See also **Joint degrees** and "**With**" **degrees**.

Sponsio Academica All St Andrews students, when they matriculate, agree to an oath printed on the matriculation form that guarantees good conduct and "...that we shall be subject to the authority of the Senatus Academicus ...". The oath used to be spoken (in Latin) but is now simply printed, with signature of the matriculation form indicating agreement. All four ancient Scottish Universities have a Sponsio Academica, though they differ in wording. See www.st-andrews.ac.uk/students/rules/

Termination of Studies : Students whose performance is unsatisfactory and/or who have insufficient credits for their particular stage of study may have their studies terminated. Individual students' performance will be reviewed by the Faculty Business Committee and a decision made as to whether or not their studies should be terminated. Students who are potentially in this situation will be notified and will be given a limited period to inform the Faculty Business committee of any circumstances that have adversely affected their performance in order that these may be taken account of prior to a final decision being made. Failure to notify the Faculty Business Committee of such circumstances by the due date will normally lead to the automatic termination of studies with immediate effect.

"With" degrees. These are degrees where credits for an Honours programme are obtained from two subject areas, and where no fewer than one-quarter and no more than one-third of the credits are taken in one of the two subject areas. These degrees are also known as Major/Minor degrees. Degrees where a second subject is studied for less than one-quarter of the total credits are classified as Single Honours Degrees. See also **Major** and **Minor** programmes.

Year. An academic **year** is synonymous with academic **session** (September to September), and comprises two **semesters** and the summer break.

Appendices

THE EUROPEAN COMMUNITY COURSE CREDIT TRANSFER SYSTEM (ECTS)

In addition to SCOTCATS, the University of St Andrews subscribes to the ECTS on an institution-wide base. This system consists of two mechanisms and four instruments as follows:-

A. Mechanisms

1. Credits. Under ECTS, the weight of individual modules within courses is expressed in terms of a 60-point annual credit scale (20 per term or 30 per semester). ECTS, therefore, works on a credit scale which is precisely half of the SCOTCAT and the internal University of St Andrews credit scales which give 120 credits to each academic session, eg, a module weighted at 30 St Andrews or SCOTCAT credits is weighted at 15 ECTS credits. The two sets of scales are thus easily translated from one to the other. Both sets of credit scales base credit allocation on relative student workload. Moreover, under both systems no credits are awarded for modules in which students do not pass the assessment. The 60 credits on the ECTS scale represent the minimum annual accumulation of credits to represent a satisfactory workload. Students may, in certain circumstances, accumulate more credits but will not be allowed to attempt to gain more than 75 ECTS credits in any one academic session.

2. Grades. ECTS uses an ‘interface’ gradescale to express student achievement, distinguishing not only those who pass from those who fail the assessment but also, for those who pass, the relative excellence of the pass. This interface gradescale is designed to help European universities understand each other’s very varied gradescales. The ECTS gradescale, therefore, reports three things. First, it gives a letter-grade on a scale from A to F, where A is the best and F the worst grade. Secondly, it gives a verbal description of the level of excellence of performance. Thirdly and in order to diminish possible misunderstanding between institutions because of different conceptions of the numbers normally attaining the various levels of relative excellence, those levels are tied to specific percentile groups of those students who pass the individual modules. The ECTS gradescales, as described, are set out at the end of this Appendix.

B. Instruments

1. The Application Form. The ECTS pilot scheme has its own specific Application Form. Each European student coming to St Andrews will be asked to pre-select the modules which he/she wishes to take on coming here. This process will be formalised through Pre-advising.

2. The Learning Agreement. At the beginning of his/her period of study at a host university, the ECTS student concludes a **learning agreement** with that host. This records all the modules which the student will actually take during the study period there. Where the student comes from a home university to which he/she intends to return, the **learning agreement**, once signed by both the student and St Andrews, is sent to the home university for a counter-signature indicating the home university’s approval of the study programme. It is then returned to St Andrews and a copy given to the student.

3. The Transcript of Record. ECTS has, in addition to St Andrews’ own transcript, a standard **transcript of record** which records every module taken in St Andrews by the visiting student, with its course-code, the length of period of study for that module, the number of credits gained by the student who has passed the module, and a separate grade conversion sheet showing the equivalent ECTS grade. The total number of credits is given at the bottom of the document which is signed and sealed by St Andrews. It is on the basis of this instrument that a student will be able to transfer credits gained in St Andrews back to his/her home university for graduating purposes. Alternatively, the student may take the ‘negotiable’ credits record on the transcript to an entirely different university and attempt to turn them into ‘negotiated’ credit, that is, to have them accepted for graduating purposes by that university. Another university will make its judgment on the basis of its overall estimation of the quality of studies in St Andrews and on taking into consideration questions of programme equivalence.

4. The Information Package. In order to offer fully transparent information on a university integrating ECTS into its mechanisms, it is necessary for that institution to produce an **ECTS information package** giving full information about the institution both in general terms and in respect of its teaching programmes, its methods of teaching, learning and assessment and its academic support systems. The style and content of these information packages was developed through the years of the ECTS pilot scheme from 1989. This Course Catalogue, along with the equivalent Postgraduate Course Catalogue, constitutes St Andrews’ institution-wide ECTS information package. Parts of it have been translated into, and are available in, other EU languages.

Introduction – Appendices – Honours 2009/10 – August 2009

The ECTS Grading Scale

ECTS Grade	Percentage of successful students normally achieving the grade	Definition
A	10	EXCELLENT - outstanding performance with only minor errors
B	25	VERY GOOD - above the average standard but with some errors
C	30	GOOD - generally sound work with a number of notable errors
D	25	SATISFACTORY - fair but with significant shortcomings
E	10	SUFFICIENT - performance meets the minimum criteria
X	-	FAIL - some more work required before credit can be awarded
F	-	FAIL - considerable further work is required

LICENTIATE OF INTEGRATED EUROPEAN STUDIES

The Licentiate is a certificate offered by the University of St Andrews to recognize the work students have done in a form that goes beyond a simple transcript of courses taken. It is not equivalent to a graduating programme.

1. Eligibility. Any student spending a year in St Andrews under a European Union scheme, who is registered for a graduating degree in their home country.

2. Pathway. A programme approved by the Adviser totalling 120 credits, including ET1001/ET1002 (unless the student has an equivalent or superior qualification) and a further 80 credits from 1000-5000 level modules.

French: For third-level students of lettres modernes and langues étrangères from French universities the normal pathway is 120 credits in a programme approved by the Adviser.

The normal pathway for fourth level students from French universities is 120 credits, including ET1001 (unless the student has an equivalent or superior qualification, in which latter case he or she may take FR5001 within the normal total of 120 credits) and a further 100 credits of which not more than 45 credits may be at Honours level. Modules must include FR5099 (unless students are not preparing dissertations for their home universities) and others drawn from ET1002, FR5002, FR5003, FR5005, FR5006, FR5007, FR5023, FR5099, ML5001, ML5002, ML5005, ML5006, ML5007, ML5008, ML5012, ML5013, ML5014, ML5018, ML5019 and any other available Postgraduate or Honours modules.

3. Standard of attainment. To receive the Licentiate students require to achieve a minimum overall grade average of 11 on the University reporting scale, subject to their programme including 3000-5000 level modules totalling at least 60 credits.

4. Examining Board. The appropriate Examining Board for individual candidates will be determined by the School responsible for the exchange agreement under which the student has come to St Andrews, subject to confirmation by the Dean.

5. Credit Transfer for M.Litt. Students who have satisfactorily completed a Licentiate programme incorporating appropriate 5000 Level modules may, on the recommendation of the Head of School and with the approval of the Dean, elect not to accept the award of the Licentiate but to transfer the credits obtained on the Licentiate programme in order to enter the second year of the part-time M.Litt. programme with advanced standing.

GENERAL GUIDANCE

This is a guide to some aspects of the University you are likely to encounter during your time at St Andrews. Please read it carefully. If your questions are not answered, or you are in doubt about anything that affects you, do not hesitate to ask. Schools, Departments and staff in the Registry will be happy to assist you and will endeavour to provide you with all the guidance you need in the course of your academic career. Changes occurring after the publication of this Catalogue will be posted on the Course Catalogue web pages:

www.st-andrews.ac.uk/students/academic/Coursecatalogue/

1. Advising of Studies

The Advising process in the University ensures that all students take the correct modules and number of credits that they need in order to graduate in their chosen degree. The Advising of students is looked after by Faculty Advisers, who are Academic members of staff from a range of Schools and Departments across the University, and overseen by the Pro Dean (Advising) in each Faculty.

Advising is obligatory for all students and no student can take a module without the approval of the appropriate Faculty Adviser at a meeting in person during Advising in September. All students must have their modules approved ('validated' is the term used) by their Adviser(s) in order to matriculate and so officially become a student of the University for that Academic session. All issues relating to fees, accommodation, medical services, ID cards, etc are dealt with at matriculation and not in Advising which focuses on Academic matters.

There are Sub-Honours Advisers and Honours Advisers, and their roles differ.

Sub-Honours Advisers:

Sub-Honours Advisers each have a number of students assigned to them, and they are responsible for the Advising of those students into modules. Thus every first and second year student has a personal, named Adviser. Students will normally stay with the same Adviser through the first two years of their University career. The Advisers will see their students at particular points in the Academic year and can advise them into first and second level modules in any appropriate subject. The Advisers will check that their students are taking the correct modules for their intended degree, that they are suitably qualified for any other modules they wish to take, and generally ensure that their students' module choices are appropriate and in accordance with University and Faculty regulations. Advisers will check and approve any module changes students wish to make.

In addition to fixed compulsory meetings with their Advisers, students may also contact them at any time in the Academic Year if they have anything that they wish to discuss. Although the primary function of an Adviser is to deal with the administrative side of a student's academic career, the Adviser is also a student's first point of contact, especially in the first year of study, and consequently Advisers may expect to be approached for advice upon a range of issues. Advisers do not know everything, nor are they expected to, but they will be able to direct students to the various sources of information or support available in the University (e.g. Academic Schools, Student Support Services, Registry, Accommodation Services, Careers Service, Saltire etc.).

First and Second year students must attend an individual appointment with their Adviser at the start of each academic year. The on-line Advising system is designed to minimise the more bureaucratic aspects of the process so that Advisers will have time to encourage students to think more carefully about their aspirations, needs and degree/career intentions. In addition, Advisers will direct entrant students towards the Personal Development Planning (PDP) tool which will prompt them to think about the relevance and usefulness of particular modules and programmes for their future plans and aspirations and help inform their discussions with their Advisers.

Honours Advisers:

At the end of second year those students who have met the published requirements are admitted to Honours. They now pass from a named Sub-Honours Adviser to the Honours Adviser(s) in their chosen subject(s). Students must meet their Advisers in person in order to complete matriculation.

Honours Advisers are School based and control access to the Honours level modules in their particular subject. Unlike Sub-Honours Advisers they cannot advise students into Honours modules in any subject, but only in their own subject. Equally, a student may only be advised into an Honours level module by the Honours Adviser for that subject.

General Guidance – Honours 2009/10 – August 2009

The primary role of the Honours Advisers is to ensure that each Honours student in their subject registers for an appropriate selection of modules that will enable them to fulfil the requirements of the Honours Degree Programme to which they have been admitted. In the case of Joint Degree programmes students will have to consult, and have their module selections validated by, Honours Advisers in each subject area.

As with Sub-Honours Advising, students may contact the Honours Adviser for advice at any time during the Academic year.

Advising Calendar:

Pre-advising – choosing modules for the coming Academic year

For new students: the on-line system is open during the summer and entrant students are able to select and enter modules on-line once they have received their University e-mail address and password. These choices will be checked, corrected if necessary, and confirmed at **Advising**.

For returning students: pre-advising takes place in Spring for the following academic session. For Sub-Honours students this may be done on-line or in consultation with their Adviser. For Honours students Schools will provide all the necessary information for module selection and pre-advising.

Advising – first meeting with Advisers and validation of module choices

For all undergraduate students Advising is scheduled in the week prior to the start of teaching. First and Second year students are given individual appointment times for a meeting with their Advisers as described above. Honours students must check the arrangements for Advising with the individual Schools' Honours Advisers.

Re-advising – changing module choices

During the first two weeks of teaching in each semester students may change modules if they wish. All such changes must be made officially through the appropriate Adviser (Sub-Honours or Honours) who will check whether requested changes are permissible and discuss them with students as appropriate.

2. Your Responsibilities

The University has now agreed in principle that email should be recognised as an official form of communication between staff and students. Email facilities are made available to all students. It is your responsibility to check your University mail every 48 hours to ensure you receive all notifications sent in that way.

It is also your responsibility to ensure that your personal details (home, term addresses and contact numbers etc) held on the University's Student Record Computer System are kept up-to-date. This must be up-to-date prior to Advising and can be further amended throughout the year through the Student Portal :

<https://portal.st-andrews.ac.uk/students>

You should also check that your module choices are suitable for the academic programme you wish to pursue, and that you are taking enough credits at levels suitable for your intended degree. Advisers of Studies do their best at the beginning of each session to guide students into the modules they need to take but students also have responsibility to make sure they are meeting Senate Regulations and Degree Programme Requirements. Following the advising and re-advising processes you are required to confirm your module selections on-line. It is your responsibility to report any incorrect modules to the appropriate Pro Dean by the deadline (end week 5 in each semester). Failure to do so may result in clashes in examination timetables or you being registered over/under-credit for the semester.

If you have any questions about your academic programme you should bring them to the attention of your Adviser as soon as possible, bearing in mind that it is not normally possible to alter module choices after the first two weeks of a semester.

3. Withdrawal

You may decide that you wish to withdraw from your studies either temporarily or permanently. If so, you must consult the Registry where you will be given an appointment with the relevant Faculty Officer who will advise you and decide whether to approve your withdrawal or refer it to the relevant Faculty Business Committee.

This procedure of formal approval is necessary for the notification of academic Schools, the Registry, etc, and also for any Awarding Body involved.

Students admitted to an Honours Programme but who decide not to complete the Programme can graduate with a General Degree if they have satisfied the requirements for the degree. If you wish to graduate with this degree, you should inform the Registry and Pro Dean (Advising) in Arts & Divinity or the Pro Dean (Science) in writing as soon as you reach this decision, and *no later than* the date when final results are reported at the end of the academic session if you wish to graduate at a June graduation ceremony.

4. Permission to Proceed

Students must acquaint themselves with the Senate Regulations on Permission to Proceed (page 2.4) and the requirements for each module as specified in the relevant School Handbook.

5. Absence from Classes

Attendance is a basic assessment requirement for credit award, and failure to attend classes or meetings with supervisors may result in your losing the right to be assessed in that module. Please ensure that you are familiar with the '**Permission to Proceed**' regulations as stated in the School handbooks.

If you have missed timetabled classes/events or any other compulsory elements of the module due to illness or an unavoidable pre-arranged event or appointment, you must complete a Self Certificate of Absence form (through e-Vision) as soon as possible. This is available at: https://e-vision.st-andrews.ac.uk/urd/sits.urd/run/siw_lgn

Under certain circumstances, Schools may request further documentation in addition to the Self Certificate. In this case, students should contact Student Support Services in order to organise the appropriate documentation.

If you submit more than three Self Certificates in a single semester, or if the period of absence extends to fifteen working days, you may be contacted by Student Support Services, the relevant Pro Dean, or by an appropriate member of staff in your School.

6. Examinations

Absence from Examinations due to illness or any other unavoidable reason should be reported IMMEDIATELY you know you will be unable to sit an examination to the University Examinations Office by telephone (01334 46) 2528. This should then be followed up by completion of a Self Certification of Absence form (through e-Vision). As soon as you are well enough you should contact your School(s) to make arrangements for an alternative or deferred assessment to be completed at the earliest opportunity.

Circumstances affecting performance

Where a student believes there are special circumstances, personal or medical, which will affect their examination performance they should inform the School before the examination or as soon thereafter as possible. Once the Examining Board has met special circumstances cannot normally be considered.

7. Junior Semester One Abroad (JS1A)

Alternative forms of assessment have been approved to replace the January examination for international students who are enrolled for the first semester only and who do not intend to return to St Andrews after Christmas.

8. Study Abroad

Students who are studying abroad will be advised into an appropriate combination of St Andrews study abroad modules. These modules are set up on a subject, credit and semester basis and all students will be advised into them normally by week 2 of the first semester.

The modules reflect as well as possible what the student intends to study during his/her period of study abroad. Reporting several study abroad results for a single semester in a single 60-credit shell module is not permitted. For example, if four modules are to be taken during one semester overseas, then 4 x 15 credit St Andrews modules will normally be used to report the module results. In cases where there is no exact match between credit loading overseas and the study abroad modules available in St Andrews, Advisers of Studies will strive to make the best match possible. Where averaging is required, e.g. in the case of a number of overseas modules bearing very small credit loads, the usual procedure of averaging to one decimal point will be followed.

Any subject code may be used with any of the module numbers e.g. FR3971, SP3971 etc. If a module does not appear to be available, Registry will activate the correct code.

The 4000 level code for semester 2 work will be used where appropriate, bearing in mind that all students are required to achieve 90 credits of an Honours programme at 4000 level.

The module shells currently available for use are:-

	Semester 1		Semester 2	
<i>10 credits</i>	3969, 3985, 3987, 3995, 3997, 3999		3968, 3970, 3986, 3988, 3996, 3998	4986, 4988
<i>15 credits</i>	3977, 3979, 3989, 3993	4979	3978, 3980, 3990, 3994	4978, 4980
<i>20 credits</i>	3981, 3983, 3991		3982, 3984, 3992	4982, 4984
<i>30 credits</i>	3973, 3975	4973, 4975	3974, 3976	4974, 4976
<i>60 credits</i>	3971		3972	4972

The Undergraduate Resolutions and Regulations are held and updated online.

For the current version please go to :

www.st-andrews.ac.uk/students/rules/ugsenateregulations

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
Ancient History	MA Hons	8.1	Arabic - Modern History	MA Hons	14.1, 14.9
Ancient History & Archaeology	MA Hons	8.4	Arabic - Philosophy	MA Hons	14.1, 19.2
Ancient History - Art History	MA Hons	8.2, 4.2	Arabic - Social Anthropology	MA Hons	14.1, 19.3
Ancient History - Biblical Studies	MA Hons	8.2, 10.2	Arabic - Spanish	MA Hons	14.1, 18.13
Ancient History - Economics	MA Hons	8.2, 11.3	Arabic - Spanish (WIYA)	MA Hons	14.1, 18.13
Ancient History - Film Studies	MA Hons	8.2, 19.1	Art History	MA Hons	4.1
Ancient History - French	MA Hons	8.2, 18.2	Art History - Ancient History	MA Hons	4.2, 8.2
Ancient History - French (WIYA)	MA Hons	8.2, 14.2	Art History - Arabic	MA Hons	4.2, 14.1
Ancient History - German	MA Hons	8.2, 18.5	Art History - Biblical Studies	MA Hons	4.2, 10.2
Ancient History - German (WIYA)	MA Hons	8.2, 18.5	Art History - Classical Studies	MA Hons	4.2, 8.5
Ancient History - Greek	MA Hons	8.2, 8.7	Art History - English	MA Hons	4.2, 12.2
Ancient History - Italian	MA Hons	8.2, 18.7	Art History - Film Studies	MA Hons	4.2, 19.1
Ancient History - Italian (WIYA)	MA Hons	8.2, 18.7	Art History - French	MA Hons	4.2, 18.2
Ancient History - Latin	MA Hons	8.2, 8.8	Art History - French (WIYA)	MA Hons	4.2, 18.2
Ancient History - Mathematics	MA Hons	8.2 17.3	Art History - Geography	MA Hons	4.2, 13.2
Ancient History - Philosophy	MA Hons	8.3, 19.2	Art History - German	MA Hons	4.2, 18.5
Ancient History - Spanish	MA Hons	8.2, 18.13	Art History - German (WIYA)	MA Hons	4.2, 18.5
Ancient History - Spanish (WIYA)	MA Hons	8.2, 18.13	Art History - Greek	MA Hons	4.2, 8.7
Ancient History with Linguistics ^{na-09}	MA Hons	8.3, 18.6	Art History - Hebrew	MA Hons	4.2, 10.2
Animal Biology ^{na-06}	BSc Hons	5.1	Art History - International Relations	MA Hons	4.2, 15.1
Applied Economics	MA Hons	11.1	Art History - Italian	MA Hons	4.2, 18.7
Applied Economics	BSc Hons	11.1	Art History - Italian (WIYA)	MA Hons	4.2, 18.7
Applied Mathematics	MMath Hons	17.1	Art History - Management	MA Hons	4.2, 16.1
Applied Quantitative Finance	MSci Hons	11.2	Art History - Mathematics	MA Hons	4.2, 17.3
Arabic & Middle East Studies	MA Hons	14.2	Art History - Mediaeval History	MA Hons	4.2, 14.6
Arabic - Art History	MA Hons	14.1, 4.2	Art History - Middle East Studies	MA Hons	4.2, 14.8
Arabic - Economics	MA Hons	14.1, 11.3	Art History - Modern History	MA Hons	4.2, 14.9
Arabic - English ^E	MA Hons	14.1, 12.2	Art History - Philosophy	MA Hons	4.2, 19.2
Arabic - Film Studies	MA Hons	14.1, 19.1	Art History - Psychology	MA Hons	4.2, 21.2
Arabic - French	MA Hons	14.1, 18.2	Art History - Russian	MA Hons	4.2, 18.10
Arabic - French (WIYA)	MA Hons	14.1, 18.2	Art History - Russian (WIYA)	MA Hons	4.2, 18.10
Arabic - German	MA Hons	14.1, 18.5	Art History - Social Anthropology	MA Hons	4.2, 19.3
Arabic - German (WIYA)	MA Hons	14.1, 18.5	Art History - Spanish	MA Hons	4.2, 18.13
Arabic - Hebrew	MA Hons	14.1, 10.2	Art History - Spanish (WIYA)	MA Hons	4.2, 18.13
Arabic - International Relations	MA Hons	14.1, 15.1	Arts (General Degree)	MA	
Arabic - Italian	MA Hons	14.1, 18.7	Astrophysics	BSc Hons	20.2
Arabic - Italian (WIYA)	MA Hons	14.1, 18.7	Astrophysics	MPhys Hons	20.2
Arabic - Latin	MA Hons	14.1, 8.8	B.D. (Bachelor of Divinity)	BD Hons	
Arabic - Management	MA Hons	14.1, 16.1	Behavioural Biology	BSc Hons	5.1
Arabic - Mathematics	MA Hons	14.1, 17.3	Biblical Studies	MA Hons	10.1
Arabic - Mediaeval History	MA Hons	14.1, 14.6	Biblical Studies - Ancient History	MA Hons	10.2, 8.2

^T Timetable clash exists

^E Timetable clash means that Second Level English must be taken in the first year to do this combination

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
Biblical Studies - Art History	MA Hons	10.2, 4.2	Chemistry with German (WIYA) ^{na-08}	BSc Hons	7.6, 18.6
Biblical Studies - Classical Studies~	MA Hons	10.2, 8.5	Chemistry with Materials Chemistry	BSc Hons	7.5
Biblical Studies - Economics	MA Hons	10.2, 11.3	Chemistry with Mathematics	MChem Hons	7.11
Biblical Studies - English	MA Hons	10.2, 12.2	Chemistry with Medicinal Chemistry	BSc Hons	7.5
Biblical Studies - Film Studies	MA Hons	10.2, 19.1	Chemistry with Medicinal Chemistry	MChem Hons	7.8
Biblical Studies - French	MA Hons	10.2, 18.2	Chemistry with Medicinal Chemistry	MChem Hons	7.8
Biblical Studies - French (WIYA)	MA Hons	10.2, 18.2	Chemistry and External Placement	MChem Hons	7.8
Biblical Studies - German ^T	MA Hons	10.2, 18.5	Chemistry with Pharmacology	BSc Hons	7.6
Biblical Studies - German (WIYA) ^T	MA Hons	10.2, 18.5	Chemistry with Spanish ^{na-08}	BSc Hons	7.6, 18.15
Biblical Studies - Greek	MA Hons	10.2, 8.7	Chemistry with Spanish (WIYA) ^{na-08}	BSc Hons	7.6, 18.15
Biblical Studies - Hebrew	MA Hons	10.2, 10.2	Classical Studies	MA Hons	8.4
Biblical Studies - International Relations	MA Hons	10.2, 15.1	Classical Studies - Art History	MA Hons	8.5, 4.2
Biblical Studies - Mathematics	MA Hons	10.2, 17.3	Classical Studies - Biblical Studies	MA Hons	8.5, 10.2
Biblical Studies - Philosophy	MA Hons	10.2, 19.2	Classical Studies - English	MA Hons	8.5, 12.2
BSc General	BSc Gen		Classical Studies - Film Studies	MA Hons	8.5, 19.1
Biochemistry	BSc Hons	5.1	Classical Studies - French	MA Hons	8.5, 18.2
Biology	BSc Hons	5.2	Classical Studies - French (WIYA)	MA Hons	8.5, 18.2
Biology - Economics	BSc Hons	5.3, 11.3	Classical Studies - Geography	MA Hons	8.5, 13.2
Biology - Psychology	BSc Hons	5.2, 21.2	Classical Studies - Greek	MA Hons	8.5, 8.7
Biology with French	BSc Hons	5.3, 18.3	Classical Studies - International Relations	MA Hons	8.5, 15.1
Biology with French (WIYA)	BSc Hons	5.3, 18.3	Classical Studies - Italian	MA Hons	8.5, 18.7
Biology with German ^{na-08}	BSc Hons	5.2, 18.6	Classical Studies - Italian (WIYA)	MA Hons	8.5, 18.7
Biology with German (WIYA) ^{na-08}	BSc Hons	5.2, 18.6	Classical Studies - Latin	MA Hons	8.5, 8.7
Biology with Spanish ^{na-08}	BSc Hons	5.2, 18.15	Classical Studies - Mathematics	MA Hons	8.5, 17.3
Biology with Spanish (WIYA) ^{na-08}	BSc Hons	5.2, 18.15	Classical Studies - Mediaeval History	MA Hons	8.5, 14.6
Biomolecular Science	BSc Hons	5.4, 7.2	Classical Studies - Middle East Studies	MA Hons	8.5, 14.8
Cell Biology	BSc Hons	5.4	Classical Studies - Modern History	MA Hons	8.5, 14.9
Chemical Sciences	BSc Hons	7.3	Classical Studies - New Testament	MA Hons	8.5, 10.3
Chemistry	BSc Hons	7.3	Classical Studies - Philosophy	MA Hons	8.5, 19.2
Chemistry	MChem Hons	7.7	Classical Studies - Scottish History	MA Hons	8.5, 14.11
Chemistry - Geoscience	BSc Hons	7.4, 13.4	Classical Studies - Social Anthropology	MA Hons	8.5, 19.3
Chemistry - Mathematics	BSc Hons	7.4, 17.3	Classical Studies - Theological Studies	MA Hons	8.5, 10.3
Chemistry - Physics	MSci	7.11, 20.4	Classics	MA Hons	8.6
Chemistry with Catalysis ^{na-09}	BSc Hons	7.5	Classics - French	MA Hons	8.6, 18.2
Chemistry with External Placement	MChem Hons	7.8	Classics - French (WIYA)	MA Hons	8.6, 18.2
Chemistry with French	BSc Hons	7.6, 18.3			
Chemistry with French (WIYA)	BSc Hons	7.6, 18.3			
Chemistry with French	MChem Hons	7.10, 18.3			
Chemistry with German ^{na-08}	BSc Hons	7.6, 18.6			

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
Classics - Italian	MA Hons	8.6, 18.7	Economics - Italian (WIYA)	MA Hons	11.3, 18.7
Classics - Italian (WIYA)	MA Hons	8.6, 18.7	Economics - Management	BSc Hons	11.3, 16.1
Classics - Management	MA Hons	8.6, 16.1	Economics - Management	MA Hons	11.3, 16.1
Classics - Philosophy	MA Hons	8.6, 19.2	Economics - Management Science	BSc Hons	11.3, 16.3
Classics - Spanish	MA Hons	8.6, 18.13	Economics - Mathematics	MA Hons	11.3, 17.3
Classics - Spanish (WIYA)	MA Hons	8.6, 18.13	Economics - Mathematics	BSc Hons	11.3, 17.3
Computer Science	BSc Hons	9.1	Economics - Mediaeval History	MA Hons	11.3, 14.6
Computer Science - Economics	BSc Hons	9.2, 11.3	Economics - Middle East Studies	MA Hons	11.3, 14.8
Computer Science - Logic & Philosophy of Science	BSc Hons	9.2, 19.3	Economics - Modern History	MA Hons	11.3, 14.9
Computer Science - Management	BSc Hons	9.2, 16.1	Economics - Philosophy	MA Hons	11.3, 19.2
Computer Science - Management Science	BSc Hons	9.2, 16.3	Economics - Psychology	BSc Hons	11.3, 21.3
Computer Science - Mathematics	BSc Hons	9.2, 17.3	Economics - Psychology	MA Hons	11.3, 21.3
Computer Science - Physics	BSc Hons	9.2, 20.3	Economics - Russian	MA Hons	11.3, 18.10
Computer Science - Psychology	BSc Hons	9.2, 21.3	Economics - Russian (WIYA)	MA Hons	11.3, 18.10
Computer Science - Statistics	BSc Hons	9.2, 17.4	Economics - Social Anthropology	MA Hons	11.3, 19.3
Computer Science with French ^{na-08}	BSc Hons	9.2, 18.3	Economics - Spanish	MA Hons	11.3, 18.13
Computer Science with French (WIYA) ^{na-08}	BSc Hons	9.2, 18.3	Economics - Spanish (WIYA)	MA Hons	11.3, 18.13
Divinity	BD Hons	10.2	Economics - Statistics	MA Hons	11.3, 17.4
Ecology & Conservation	BSc Hons	5.5	Economics - Statistics	BSc Hons	11.3, 17.4
Economics	MA Hons	11.2	Economics with French ^{na-08}	BSc Hons	11.3, 18.3
Economics	BSc Hons	11.2	Economics with French (WIYA) ^{na-08}	BSc Hons	11.3, 18.3
Economics - Ancient History	MA Hons	11.2, 8.2	Economics with German	MA Hons	11.3, 18.6
Economics - Arabic	MA Hons	11.3, 14.1	Economics with German (WIYA)	MA Hons	11.3, 18.6
Economics - Biblical Studies	MA Hons	11.3, 10.2	Economics with Russian	MA Hons	11.3, 18.12
Economics - Biology	BSc Hons	11.3, 5.2	Economics with Russian (WIYA)	MA Hons	11.3, 18.12
Economics - Computer Science	BSc Hons	11.3, 9.2	Economics with Russian ^{na-08}	BSc Hons	11.3, 18.12
Economics - English	MA Hons	11.3, 12.2	Economics with Russian (WIYA) ^{na-08}	BSc Hons	11.3, 18.12
Economics - Environmental Geoscience	BSc Hons	11.3, 13.5	Economics with Social Anthropology	MA Hons	11.3, 19.4
Economics - Film Studies	MA Hons	11.3, 19.1	Economics with Spanish	MA Hons	11.3, 18.15
Economics - Geography	MA Hons	11.3, 13.2	Economics with Spanish (WIYA)	MA Hons	11.3, 18.15
Economics - Geoscience	BSc Hons	11.3, 13.4	Economics with Spanish ^{na-08}	BSc Hons	11.3, 18.15
Economics - German	MA Hons	11.3, 18.5	Economics with Spanish (WIYA) ^{na-0}	BSc Hons	11.3, 18.15
Economics - German (WIYA)	MA Hons	11.3, 18.5	English	MA Hons	12.1
Economics - International Relations	MA Hons	11.3, 15.1	English - Arabic ^E	MA Hons	12.2, 14.1
Economics - Internet Computer Science	BSc Hons	11.3, 9.3	English - Art History	MA Hons	12.2, 4.2
Economics - Italian	MA Hons	11.3, 18.7	English - Biblical Studies	MA Hons	12.2, 10.2
			English - Classical Studies	MA Hons	12.2, 8.5
			English - Economics	MA Hons	12.2, 11.3

^T Timetable clash exists

^E Timetable clash means that Second Level English must be taken in the first year to do this combination

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
English - Film Studies	MA Hons	12.2, 19.1	Film Studies - Ancient History	MA Hons	19.1, 8.2
English - French	MA Hons	12.2, 18.2	Film Studies - Arabic	MA Hons	19.1, 14.1
English - French (WIYA)	MA Hons	12.2, 14.2	Film Studies - Art History	MA Hons	19.1, 4.2
English - German	MA Hons	12.2, 18.5	Film Studies - Biblical Studies	MA Hons	19.1, 10.2
English - German (WIYA)	MA Hons	12.2, 18.5	Film Studies - Classical Studies	MA Hons	19.1, 8.5
English - Greek	MA Hons	12.2, 8.7	Film Studies - Economics	MA Hons	19.1, 11.3
English - Hebrew	MA Hons	12.2, 10.2	Film Studies - English	MA Hons	19.1, 12.2
English - Italian	MA Hons	12.2, 18.7	Film Studies - French	MA Hons	19.1, 18.2,
English - Italian (WIYA)	MA Hons	12.2, 18.7	Film Studies - French (WIYA)	MA Hons	19.1, 18.2
English - Latin	MA Hons	12.2, 8.8	Film Studies - Geography	MA Hons	19.1, 13.2
English - Management	MA Hons	12.2, 16.1	Film Studies - German	MA Hons	19.1, 18.5
English - Mediaeval History	MA Hons	12.2, 14.6	Film Studies - German (WIYA)	MA Hons	19.1, 18.5
English - Middle East Studies	MA Hons	12.2, 14.8	Film Studies - International Relations	MA Hons	19.1, 15.1
English - Modern History	MA Hons	12.2, 14.9	Film Studies - Italian	MA Hons	19.1, 18.7
English - Philosophy	MA Hons	12.2, 19.2	Film Studies - Italian (WIYA)	MA Hons	19.1, 18.7
English - Psychology	MA Hons	12.2, 21.2	Film Studies - Modern History	MA Hons	19.1, 14.9
English - Russian ^E	MA Hons	12.2, 18.10	Film Studies - Philosophy	MA Hons	19.1, 19.2
English - Russian (WIYA) ^E	MA Hons	12.2, 18.10	Film Studies - Psychology	MA Hons	19.1, 21.4
English - Scottish History	MA Hons	12.2, 14.11	Film Studies - Russian	MA Hons	19.1, 18.10
English - Social Anthropology	MA Hons	12.2, 19.3	Film Studies - Russian (WIYA)	MA Hons	19.1, 18.10
English - Spanish	MA Hons	12.2, 18.13	Film Studies - Scottish History	MA Hons	19.1, 14.11
English - Spanish (WIYA)	MA Hons	12.2, 18.13	Film Studies - Social Anthropology	MA Hons	19.1, 19.3
English - Theological Studies	MA Hons	12.2, 10.3	Film Studies - Spanish	MA Hons	19.1, 18.13
English with Linguistics ^{na-09}	MA Hons	12.3, 18.8	Film Studies - Spanish (WIYA)	MA Hons	19.1, 18.13
Environmental Biology ^{na-06}	BSc Hons	5.6	Film Studies - Theological Studies	MA Hons	19.1, 10.3
Environmental Biology - Environmental Geoscience ^{na-10}	BSc Hons	5.5	Financial Economics (Arts)	MA Hons	11.2
Environmental Biology - Geography	BSc Hons	5.5, 13.2	Financial Economics (Science)	BSc Hons	11.2
Environmental Biology - Geoscience	BSc Hons	5.5, 13.4	French	MA Hons	18.1
Environmental Geoscience ^{na-10}	BSc Hons	13.5	French (WIYA)	MA Hons	18.1
Environmental Geoscience - Economics	BSc Hons	13.5, 11.3	French - Ancient History	MA Hons	18.2, 8.2
Environmental Geoscience - Environmental Biology ^{na-10}	BSc Hons	13.5, 5.5	French - Ancient History (WIYA)	MA Hons	18.2, 8.2
Environmental Geoscience - Management	MA Hons	13.5, 16.1	French - Arabic	MA Hons	18.2, 14.1
Environmental Geoscience - Management Science	BSc Hons	13.5, 16.3	French - Arabic (WIYA)	MA Hons	18.2, 14.1
Evolutionary Biology	BSc Hons	5.6	French - Art History	MA Hons	18.2, 4.2
Evolutionary and Environmental Biology ^{na-06}	BSc Hons	5.7	French - Art History (WIYA)	MA Hons	18.2, 4.2
			French - Biblical Studies	MA Hons	18.2, 10.2
			French - Biblical Studies (WIYA)	MA Hons	18.2, 10.2
			French - Classical Studies	MA Hons	18.2, 8.5
			French - Classical Studies (WIYA)	MA Hons	18.2, 8.5

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
French - Classics	MA Hons	18.2, 8.6	French - Italian with English	MA Hons	18.4, 12.2
French - Classics (WIYA)	MA Hons	18.2, 8.4	French - Italian with English (WIYA)	MA Hons	18.4, 12.2
French - English	MA Hons	18.2, 12.2	French - Italian with International Relations	MA Hons	18.1-18.15
French - English (WIYA)	MA Hons	18.2, 12.2	French - Italian with International Relations (WIYA)	MA Hons	18.1-18.15
French - Film Studies	MA Hons	18.2, 19.1	French - Italian with Linguistics ^{na}	MA Hons	18.1-18.15
French - Film Studies (WIYA)	MA Hons	18.2, 19.1	French - Italian with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15
French - Geography	MA Hons	18.2, 13.2	French - Italian with Management	MA Hons	18.1-18.15
French - Geography (WIYA)	MA Hons	18.2, 13.2	French - Italian with Management (WIYA)	MA Hons	18.1-18.15
French - German	MA Hons	18.1-18.15	French - Latin	MA Hons	18.2, 8.8
French - German (WIYA)	MA Hons	18.1-18.15	French - Latin (WIYA)	MA Hons	18.2, 8.8
French - German - Italian	MA Hons	18.1-18.15	French - Management	MA Hons	18.2, 16.1
French - German - Italian (WIYA)	MA Hons	18.1-18.15	French - Management (WIYA)	MA Hons	18.2, 16.1
French - German - Russian	MA Hons	18.1-18.15	French - Mediaeval History	MA Hons	18.2, 14.6
French - German - Russian (WIYA)	MA Hons	18.1-18.15	French - Mediaeval History (WIYA)	MA Hons	18.2, 14.6
French - German - Spanish	MA Hons	18.1-18.15	French - Modern History	MA Hons	18.2, 14.9
French - German - Spanish (WIYA)	MA Hons	18.1-18.15	French - Modern History (WIYA)	MA Hons	18.2, 14.9
French - German with English	MA Hons	18.4, 12.2	French - Philosophy	MA Hons	18.2, 19.2
French - German with English (WIYA)	MA Hons	18.4, 12.2	French - Philosophy (WIYA)	MA Hons	18.2, 19.2
French - German with International Relations	MA Hons	18.1-18.15	French - Psychology	MA Hons	18.2, 21.2
French - German with International Relations (WIYA)	MA Hons	18.1-18.15	French - Psychology (WIYA)	MA Hons	18.2, 21.2
French - German with Linguistics ^{na}	MA Hons	18.1-18.15	French - Russian	MA Hons	18.1-18.15
French - German with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	French - Russian (WIYA)	MA Hons	18.1-18.15
French - German with Management	MA Hons	18.1-18.15	French - Russian - Spanish	MA Hons	18.1-18.15
French - German with Management (WIYA)	MA Hons	18.1-18.15	French - Russian - Spanish (WIYA)	MA Hons	18.1-18.15
French - Greek	MA Hons	18.2, 8.7	French - Russian with English	MA Hons	18.1-18.15
French - Greek (WIYA)	MA Hons	18.2, 8.7	French - Russian with English (WIYA)	MA Hons	18.1-18.15
French - Hebrew	MA Hons	18.2, 10.2	French - Russian with International Relations	MA Hons	18.1-18.15
French - Hebrew (WIYA)	MA Hons	18.2, 10.2	French - Russian with International Relations (WIYA)	MA Hons	18.1-18.15
French - International Relations	MA Hons	18.2, 15.1	French - Russian with Linguistics ^{na}	MA Hons	18.1-18.15
French - International Relations (WIYA)	MA Hons	18.2, 15.1	French - Russian with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15
French - Italian	MA Hons	18.1-18.15	French - Russian with Management	MA Hons	18.1-18.15
French - Italian (WIYA)	MA Hons	18.1-18.15	French - Russian with Management (WIYA)	MA Hons	18.1-18.15
French - Italian - Russian	MA Hons	18.1-18.15	French - Social Anthropology	MA Hons	18.2, 19.3
French - Italian - Russian (WIYA)	MA Hons	18.1-18.15			
French - Italian - Spanish	MA Hons	18.1-18.15			
French - Italian - Spanish (WIYA)	MA Hons	18.1-18.15			

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
French - Social Anthropology (WIYA)	MA Hons	18.2, 19.3	Geography - Middle East Studies	MA Hons	13.2, 14.8
French - Spanish	MA Hons	18.2, 18.13	Geography - Modern History	MA Hons	13.2, 14.9
French - Spanish (WIYA)	MA Hons	18.2, 18.13	Geography - Philosophy	MA Hons	13.2, 19.2
French - Spanish with English	MA Hons	18.1-18.15	Geography - Psychology	MA Hons	13.2, 21.2
French - Spanish with English (WIYA)	MA Hons	18.1-18.15	Geography - Scottish History	MA Hons	13.2, 14.11
French - Spanish with International Relations	MA Hons	18.1-18.15	Geography - Social Anthropology	MA Hons	13.2, 19.3
French - Spanish with International Relations (WIYA)	MA Hons	18.1-18.15	Geography - Spanish	MA Hons	13.2, 18.13
French - Spanish with International Relations (WIYA)	MA Hons	18.1-18.15	Geography - Spanish (WIYA)	MA Hons	13.2, 18.13
French - Spanish with Linguistics ^{na}	MA Hons	18.1-18.15	Geography - Statistics	BSc Hons	13.2, 17.4
French - Spanish with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	Geography - Theological Studies	MA Hons	13.2, 10.3
French - Spanish with Management	MA Hons	18.1-18.15	Geography with French ^{na-08}	BSc Hons	13.2, 18.3
French - Spanish with Management (WIYA)	MA Hons	18.1-18.15	Geography with French (WIYA) ^{na-08}	BSc Hons	13.2, 18.3
French - Theological Studies	MA Hons	18.2, 10.3	Geography with Social Anthropology	MA Hons	13.2, 19.4
French - Theological Studies (WIYA)	MA Hons	18.2, 10.3	Geography with Spanish	MA Hons	13.2, 18.15
French with Linguistics ^{na-09}	MA Hons	18.3, 18.8	Geography with Spanish (WIYA)	MA Hons	13.2, 18.15
French with Linguistics (WIYA) ^{na-09}	MA Hons	18.3, 18.8	Geoscience	BSc Hons	13.3
General Degree of MA	MA Gen		Geoscience - Chemistry	BSc Hons	13.4, 7.4
General Degree of BSc	BSc Gen		Geoscience - Economics	BSc Hons	13.4, 11.3
Geography	MA Hons	13.1	Geoscience - Environmental Biology	BSc Hons	13.4, 5.5
Geography	BSc Hons	13.1	Geoscience - Management	BSc Hons	13.5, 16.1
Geography - Art History	MA Hons	13.2, 4.2	Geoscience - Management Science	BSc Hons	13.5, 16.3
Geography - Classical Studies	MA Hons	13.2, 8.4	Geoscience with French ^{na-08}	BSc Hons	13.5, 18.2
Geography - Economics	MA Hons	13.2, 11.3	Geoscience with French (WIYA) ^{na-08}	BSc Hons	13.5, 18.2
Geography - Environmental Biology	BSc Hons	13.2, 5.5	Geoscience with Spanish ^{na-08}	BSc Hons	13.5, 18.15
Geography - Film Studies	MA Hons	13.2, 19.1	Geoscience with Spanish (WIYA) ^{na-08}	BSc Hons	13.5, 18.15
Geography - French	MA Hons	13.2, 18.2	German	MA Hons	18.4
Geography - French (WIYA)	MA Hons	13.2, 14.2	German (WIYA)	MA Hons	18.4
Geography - Hebrew	MA Hons	13.2, 10.2	German - Ancient History	MA Hons	18.5, 8.2
Geography - International Relations	MA Hons	13.2, 15.1	German - Ancient History (WIYA)	MA Hons	18.5, 8.2
Geography - Italian	MA Hons	13.2, 18.7	German - Arabic	MA Hons	18.5, 14.1
Geography - Italian (WIYA)	MA Hons	13.2, 18.7	German - Arabic (WIYA)	MA Hons	18.5, 12.1
Geography - Management ^T	MA Hons	13.2, 16.1	German - Art History	MA Hons	18.5, 4.2
Geography - Management ^T	BSc Hons	13.2, 16.1	German - Art History (WIYA)	MA Hons	18.5, 4.2
Geography - Management Science	BSc Hons	13.2, 16.3	German - Biblical Studies ^T	MA Hons	18.5, 10.2
Geography - Mathematics	BSc Hons	13.2, 17.3	German - Biblical Studies ^T (WIYA)	MA Hons	18.5, 10.2
Geography - Mediaeval History	MA Hons	13.2, 14.6	German - Economics	MA Hons	18.5, 11.3
			German - Economics (WIYA)	MA Hons	18.5, 11.3

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German - English (WIYA)	MA Hons	18.5, 12.2	German - Italian with Management (WIYA)	MA Hons	18.1-18.15
German - Film Studies	MA Hons	18.5, 19.1	German - Management	MA Hons	18.5, 16.1
German - Film Studies (WIYA)	MA Hons	18.5, 19.1	German - Management (WIYA)	MA Hons	18.5, 16.1
German - French	MA Hons	18.1-18.15	German - Mediaeval History	MA Hons	18.5, 14.6
German - French (WIYA)	MA Hons	18.1-18.15	German - Mediaeval History (WIYA)	MA Hons	18.5, 14.6
German - French - Italian	MA Hons	18.1-18.15	German - Middle East Studies	MA Hons	18.5, 14.8
German - French - Italian (WIYA)	MA Hons	18.1-18.15	German - Middle East Studies (WIYA)	MA Hons	18.5, 14.8
German - French - Russian	MA Hons	18.1-18.15	German - Modern History	MA Hons	18.5, 14.9
German - French - Russian (WIYA)	MA Hons	18.1-18.15	German - Modern History (WIYA)	MA Hons	18.5, 14.9
German - French - Spanish	MA Hons	18.1-18.15	German - New Testament	MA Hons	18.5, 10.3
German - French - Spanish (WIYA)	MA Hons	18.1-18.15	German - New Testament (WIYA)	MA Hons	18.5, 10.3
German - French with English	MA Hons	18.1-18.15	German - Philosophy	MA Hons	18.5, 19.2
German - French with English (WIYA)	MA Hons	18.1-18.15	German - Philosophy (WIYA)	MA Hons	18.5, 19.2
German - French with International Relations	MA Hons	18.1-18.15	German - Psychology	MA Hons	18.5, 21.2
German - French with International Relations (WIYA)	MA Hons	18.1-18.15	German - Psychology (WIYA)	MA Hons	18.5, 21.2
German - French with Linguistics ^{na}	MA Hons	18.1-18.15	German - Russian	MA Hons	18.5, 18.9
German - French with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	German - Russian (WIYA)	MA Hons	18.5, 18.9
German - French with Management	MA Hons	18.1-18.15	German - Russian - Spanish	MA Hons	18.1-18.15
German - French with Management (WIYA)	MA Hons	18.1-18.15	German - Russian - Spanish (WIYA)	MA Hons	18.1-18.15
German - International Relations	MA Hons	18.5, 15.1	German - Russian with English	MA Hons	18.1-18.15
German - International Relations (WIYA)	MA Hons	18.5, 15.1	German - Russian with English (WIYA)	MA Hons	18.1-18.15
German - Italian	MA Hons	18.5, 18.7	German - Russian with International Relations	MA Hons	18.1-18.15
German - Italian (WIYA)	MA Hons	18.5, 18.7	German - Russian with International Relations (WIYA)	MA Hons	18.1-18.15
German - Italian - Russian	MA Hons	18.1-18.15	German - Russian with Linguistics ^{na}	MA Hons	18.1-18.15
German - Italian - Russian (WIYA)	MA Hons	18.1-18.15	German - Russian with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15
German - Italian - Spanish	MA Hons	18.1-18.15	German - Russian with Management	MA Hons	18.1-18.15
German - Italian - Spanish (WIYA)	MA Hons	18.1-18.15	German - Russian with Management (WIYA)	MA Hons	18.1-18.15
German - Italian with English	MA Hons	18.1-18.15	German - Social Anthropology	MA Hons	18.5, 19.3
German - Italian with English (WIYA)	MA Hons	18.1-18.15	German - Social Anthropology (WIYA)	MA Hons	18.5, 19.3
German - Italian with International Relations	MA Hons	18.1-18.15	German - Spanish	MA Hons	18.5, 18.13
German - Italian with International Relations (WIYA)	MA Hons	18.1-18.15	German - Spanish (WIYA)	MA Hons	18.5, 18.13
German - Italian with Linguistics ^{na}	MA Hons	18.1-18.15	German - Spanish with English	MA Hons	18.1-18.15
German - Italian with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15			

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Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
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German - Spanish with International Relations	MA Hons	18.1-18.15	Hebrew - New Testament	MA Hons	10.2,10.3
German - Spanish with International Relations (WIYA)	MA Hons	18.1-18.15	Hebrew - Russian	MA Hons	10.2, 18.10
German - Spanish with Linguistics ^{na}	MA Hons	18.1-18.15	Hebrew - Russian (WIYA)	MA Hons	10.2, 18.10
German - Spanish with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	History	MA Hons	14.3
German - Spanish with Management	MA Hons	18.1-18.15	Human Biology ^{na07-08}	BSc Hons	5.6
German - Spanish with Management (WIYA)	MA Hons	18.1-18.15	International Relations	MA Hons	15.1
German - Theological Studies	MA Hons	18.5, 10.3	International Relations - Arabic	MA Hons	15.1, 14.1
German - Theological Studies (WIYA)	MA Hons	18.5, 10.3	International Relations - Art History	MA Hons	15.1, 4.2
Greek	MA Hons	8.7	International Relations - Biblical Studies	MA Hons	15.1, 10.2
Greek - Ancient History	MA Hons	8.7, 8.2	International Relations - Classical Studies	MA Hons	15.1, 8.5
Greek - Art History	MA Hons	8.7, 4.2	International Relations - Economics	MA Hons	15.1, 11.3
Greek - Biblical Studies	MA Hons	8.7, 10.2	International Relations - Film Studies	MA Hons	15.1, 19.1
Greek - Classical Studies	MA Hons	8.7, 8.5	International Relations - French	MA Hons	15.1, 18.2
Greek - English	MA Hons	8.7, 12.2	International Relations - French (WIYA)	MA Hons	15.1, 18.2
Greek - French	MA Hons	8.7, 18.2	International Relations - Geography	MA Hons	15.1, 13.2
Greek - French (WIYA)	MA Hons	8.7, 18.2	International Relations - German	MA Hons	15.1, 18.5
Greek - Hebrew	MA Hons	8.7, 10.2	International Relations - German (WIYA)	MA Hons	15.1, 18.5
Greek - Italian	MA Hons	8.7, 18.7	International Relations - Italian	MA Hons	15.1, 18.7
Greek - Italian (WIYA)	MA Hons	8.7, 18.7	International Relations - Italian (WIYA)	MA Hons	15.1, 18.7
Greek - Latin	MA Hons	8.7, 8.8	International Relations - Management	MA Hons	15.1, 16.1
Greek - New Testament	MA Hons	8.7, 10.3	International Relations - Mathematics	MA Hons	15.1, 17.3
Greek - Philosophy	MA Hons	8.7, 19.2	International Relations - Mediaeval History ^T	MA Hons	15.1, 14.6
Greek - Spanish	MA Hons	8.7, 18.13	International Relations - Middle East Studies	MA Hons	15.1, 14.8
Greek - Spanish (WIYA)	MA Hons	8.7, 18.13	International Relations - Modern History	MA Hons	15.1, 14.9
Hebrew - Arabic	MA Hons	10.2, 14.1	International Relations - Philosophy	MA Hons	15.1, 19.2
Hebrew - Art History	MA Hons	10.2, 4.2	International Relations - Psychology	MA Hons	15.1, 21.2
Hebrew - Biblical Studies	MA Hons	10.2, 10.2	International Relations - Russian	MA Hons	15.1, 18.10
Hebrew - English	MA Hons	10.2, 12.2	International Relations - Russian (WIYA)	MA Hons	15.1, 18.10
Hebrew - French	MA Hons	10.2, 18.2	International Relations - Scottish History	MA Hons	15.1, 14.11
Hebrew - French (WIYA)	MA Hons	10.2, 18.2	International Relations - Social Anthropology	MA Hons	15.1, 19.3
Hebrew - Geography	MA Hons	10.2, 13.2			
Hebrew - Greek	MA Hons	10.2, 8.7			
Hebrew - Latin	MA Hons	10.2, 8.8			
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International Relations - Spanish (WIYA)	MA Hons	15.1,18.13	Italian - French - Spanish (WIYA)	MA Hons	18.1-18.15
International Relations - Theological Studies	MA Hons	15.1,10.3	Italian - French with English	MA Hons	18.1-18.15
Internet Computer Science	BSc Hons	9.3	Italian - French with English (WIYA)	MA Hons	18.1-18.15
Internet Computer Science - Economics	BSc Hons	9.3, 11.3	Italian - French with International Relations	MA Hons	18.1-18.15
Internet Computer Science - Logic & Philosophy of Science	BSc Hons	9.3, 19.3	Italian - French with International Relations (WIYA)	MA Hons	18.1-18.15
Internet Computer Science - Management	BSc Hons	9.3, 16.1	Italian - French with Linguistics ^{na}	MA Hons	18.1-18.15
Internet Computer Science - Management Science	BSc Hons	9.3, 16.3	Italian - French with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15
Internet Computer Science - Mathematics	BSc Hons	9.3, 17.3	Italian - French with Management	MA Hons	18.1-18.15
Internet Computer Science - Physics	BSc Hons	9.3, 20.3	Italian - French with Management (WIYA)	MA Hons	18.1-18.15
Internet Computer Science - Statistics	BSc Hons	9.3, 17.4	Italian - Geography	MA Hons	18.7, 13.2
Italian	MA Hons	18.7	Italian - Geography (WIYA)	MA Hons	18.7, 13.2
Italian (WIYA)	MA Hons	18.7	Italian - German	MA Hons	18.7, 18.5
Italian - Ancient History	MA Hons	18.7, 8.2	Italian - German (WIYA)	MA Hons	18.7, 18.5
Italian - Ancient History (WIYA)	MA Hons	18.7, 8.2	Italian - German - Russian	MA Hons	18.1-18.15
Italian - Arabic	MA Hons	18.7, 14.1	Italian - German - Russian (WIYA)	MA Hons	18.1-18.15
Italian - Arabic (WIYA)	MA Hons	18.7, 14.1	Italian - German - Spanish	MA Hons	18.1-18.15
Italian - Art History	MA Hons	18.7, 4.2	Italian - German - Spanish (WIYA)	MA Hons	18.1-18.15
Italian - Art History (WIYA)	MA Hons	18.7, 4.2	Italian - German with English	MA Hons	18.1-18.15
Italian - Classical Studies	MA Hons	18.7, 8.5	Italian - German with English (WIYA)	MA Hons	18.1-18.15
Italian - Classical Studies (WIYA)	MA Hons	18.7, 8.5	Italian - German with International Relations	MA Hons	18.1-18.15
Italian - Classics	MA Hons	18.7, 8.6	Italian - German with International Relations (WIYA)	MA Hons	18.1-18.15
Italian - Classics (WIYA)	MA Hons	18.7, 8.6	Italian - German with Linguistics ^{na}	MA Hons	18.1-18.15
Italian - Economics	MA Hons	18.7, 11.3	Italian - German with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15
Italian - Economics (WIYA)	MA Hons	18.7, 11.3	Italian - German with Management	MA Hons	18.1-18.15
Italian - English	MA Hons	18.7, 12.2	Italian - German with Management (WIYA)	MA Hons	18.1-18.15
Italian - English (WIYA)	MA Hons	18.7, 12.2	Italian - German with International Relations	MA Hons	18.7, 8.7
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Italian - Film Studies (WIYA)	MA Hons	18.7, 19.1	Italian - International Relations	MA Hons	18.7, 15.1
Italian - French	MA Hons	18.7, 18.5	Italian - International Relations (WIYA)	MA Hons	18.7, 15.1
Italian - French (WIYA)	MA Hons	18.7, 18.5	Italian - Latin	MA Hons	18.7, 8.8
Italian - French - German	MA Hons	18.1-18.15	Italian - Latin (WIYA)	MA Hons	18.7, 8.8
Italian - French - German (WIYA)	MA Hons	18.1-18.15	Italian - Management	MA Hons	18.7, 16.1
Italian - French - Russian	MA Hons	18.1-18.15			
Italian - French - Russian (WIYA)	MA Hons	18.1-18.15			

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Italian - Mathematics (WIYA)	MA Hons	18.7, 17.3	Italian - Spanish with Management	MA Hons	18.1-18.15
Italian - Mediaeval History	MA Hons	18.7, 14.6	Italian - Spanish with Management (WIYA)	MA Hons	18.1-18.15
Italian - Mediaeval History (WIYA)	MA Hons	18.7, 14.6	Latin	MA Hons	8.7
Italian - Middle East Studies	MA Hons	18.7, 14.8	Latin - Ancient History	MA Hons	8.8, 8.2
Italian - Middle East Studies (WIYA)	MA Hons	18.7, 14.8	Latin - Arabic	MA Hons	8.8, 14.1
Italian - Modern History	MA Hons	18.7, 14.9	Latin - Classical Studies	MA Hons	8.8, 8.5
Italian - Modern History (WIYA)	MA Hons	18.7, 14.9	Latin - English	MA Hons	8.8, 12.2
Italian - Philosophy	MA Hons	18.7, 19.2	Latin - French	MA Hons	8.8, 18.2
Italian - Philosophy (WIYA)	MA Hons	18.7, 19.2	Latin - French (WIYA)	MA Hons	8.8, 18.2
Italian - Psychology (WIYA)	MA Hons	18.7, 21.2	Latin - Greek	MA Hons	8.8, 8.7
Italian - Russian	MA Hons	18.7, 18.9	Latin - Hebrew	MA Hons	8.8, 10.2
Italian - Russian (WIYA)	MA Hons	18.7, 18.9	Latin - Italian	MA Hons	8.8, 18.7
Italian - Russian - Spanish	MA Hons	18.1-18.15	Latin - Italian (WIYA)	MA Hons	8.8, 18.7
Italian - Russian - Spanish (WIYA)	MA Hons	18.1-18.15	Latin - Mathematics	MA Hons	8.8, 17.3
Italian - Russian with English	MA Hons	18.1-18.15	Latin - Mediaeval History	MA Hons	8.8, 14.6
Italian - Russian with English (WIYA)	MA Hons	18.1-18.15	Latin - Middle East Studies	MA Hons	8.8, 14.8
Italian - Russian with International Relations	MA Hons	18.1-18.15	Latin - New Testament	MA Hons	8.8, 10.3
Italian - Russian with International Relations (WIYA)	MA Hons	18.1-18.15	Latin - Philosophy	MA Hons	8.8, 19.2
Italian - Russian with Linguistics ^{na}	MA Hons	18.1-18.15	Latin - Russian	MA Hons	8.8, 18.10
Italian - Russian with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	Latin - Russian (WIYA)	MA Hons	8.8, 18.10
Italian - Russian with Management	MA Hons	18.1-18.15	Latin - Spanish	MA Hons	8.8, 18.13
Italian - Russian with Management (WIYA)	MA Hons	18.1-18.15	Latin - Spanish (WIYA)	MA Hons	8.8, 18.12
Italian - Scottish History	MA Hons	18.7, 14.11	Linguistics Degrees ^{na-09}		18.8
Italian - Scottish History (WIYA)	MA Hons	18.7, 14.11	English with Linguistics ^{na-09}	MA Hons	12.3, 18.8
Italian - Social Anthropology	MA Hons	18.7, 19.3	French with Linguistics ^{na-09}	MA Hons	18.2, 18.8
Italian - Social Anthropology (WIYA)	MA Hons	18.7, 19.3	French with Linguistics (WIYA) ^{na-09}	MA Hons	18.2, 18.8
Italian - Spanish	MA Hons	18.7, 18.13	Modern Languages with Linguistics (WIYA) ^{na-09}	MA Hons	18.6, 18.8
Italian - Spanish (WIYA)	MA Hons	18.7, 18.13	Psychology with Linguistics ^{na-09}	MA Hons	21.6, 18.8
Italian - Spanish with English	MA Hons	18.1-18.15	Psychology with Linguistics ^{na-09}	BSc Hons	21.7, 18.8
Italian - Spanish with English (WIYA)	MA Hons	18.1-18.15	Russian with Linguistics ^{na-09}	MA Hons	18.12, 18.8
Italian - Spanish with International Relations	MA Hons	18.1-18.15	Russian with Linguistics (WIYA) ^{na-0}	MA Hons	18.12, 18.8
Italian - Spanish with International Relations (WIYA)	MA Hons	18.1-18.15	Social Anthropology with Linguistics ^{na-09}	MA Hons	19.4, 18.8
			Spanish with Linguistics ^{na-09}	MA Hons	18.14, 18.8
			Spanish with Linguistics (WIYA) ^{na-0}	MA Hons	18.14, 18.8
			Logic & Philosophy of Science - Computer Science	BSc Hons	19.3, 9.2

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Logic & Philosophy of Science - Mathematics	BSc Hons	19.3, 17.3	Management with Spanish ^{na-08}	BSc Hons	16.2, 18.15
Logic & Philosophy of Science - Physics	BSc Hons	19.3, 20.3	Management with Spanish (WIYA) ^{na-08}	BSc Hons	16.2, 18.15
Logic & Philosophy of Science - Statistics	BSc Hons	19.3, 17.4	Management Science	BSc Hons	16.2
MA General	MA Gen		Management Science - Computer Science	BSc Hons	16.3,9.2
MTheol Honours	MTheol Hons	8.4	Management Science - Economics	BSc Hons	16.3, 11.3
Management	MA Hons	16.1	Management Science - Environmental Geoscience	BSc Hons	16.3, 13.4
Management	BSc Hons	16.1	Management Science - Geography	BSc Hons	16.3, 13.2
Management - Arabic	MA Hons	16.1, 14.1	Management Science - Geoscience	BSc Hons	16.3, 13.4
Management - Art History	MA Hons	16.1, 4.2	Management Science - Internet Computer Science	BSc Hons	16.3, 9.3
Management - Classics	MA Hons	16.1, 8.6	Management Science - Mathematics	BSc Hons	16.3, 17.3
Management - Computer Science	BSc Hons	16.1, 9.2	Management Science - Statistics	BSc Hons	16.3, 17.4
Management - Economics	BSc Hons	16.1, 11.3	Marine Biology	BSc Hons	5.6
Management - Economics	MA Hons	16.1, 18.2	Materials Science	MSci Hons	7.12
Management - English	MA Hons	16.1, 12.2	Materials Science with External Placement	MSci Hons	7.12
Management - Environmental Geoscience	MA Hons	16.1, 13.4	Mathematics	BSc Hons	17.3
Management - Environmental Geoscience	BSc Hons	16.1, 13.4	Mathematics	MA Hons	17.3
Management - French	MA Hons	16.1, 18.2	Mathematics	MMath Hons	17.2
Management - French (WIYA)	MA Hons	16.1, 18.2	Mathematics - Ancient History	MA Hons	17.3, 8.2
Management - Geography ^T	MA Hons	16.1, 13.2	Mathematics - Arabic	MA Hons	17.3, 14.1
Management - Geography ^T	BSc Hons	16.1, 13.2	Mathematics - Art History	MA Hons	17.3, 4.2
Management - Geoscience	BSc Hons	16.1, 13.4	Mathematics - Biblical Studies	MA Hons	17.3, 10.2
Management - German	MA Hons	16.1,18.5	Mathematics - Chemistry	BSc Hons	17.3, 7.4
Management - German (WIYA)	MA Hons	16.1,18.5	Mathematics - Classical Studies	MA Hons	17.3, 8.5
Management - International Relations	MA Hons	16.1, 15.1	Mathematics - Computer Science	BSc Hons	17.3, 9.2
Management - Internet Computer Science	BSc Hons	16.1, 9.3	Mathematics - Economics	MA Hons	17.3, 11.3
Management - Italian	MA Hons	16.1, 18.7	Mathematics - Economics	BSc Hons	17.3, 11.3
Management - Italian (WIYA)	MA Hons	16.1, 18.7	Mathematics - Geography	BSc Hons	17.3, 13.2
Management - Middle East Studies	MA Hons	16.1, 14.8	Mathematics - Hebrew	MA Hons	17.3, 10.2
Management - Modern History	MA Hons	16.1, 14.9	Mathematics - International Relations	MA Hons	17.3, 15.1
Management - Philosophy	MA Hons	16.1, 19.2	Mathematics - Internet Computer Science	BSc Hons	17.3, 9.3
Management - Psychology	MA Hons	16.1, 21.2	Mathematics - Italian	MA Hons	17.3, 18.7
Management - Russian ^T	MA Hons	16.1, 18.10	Mathematics - Italian (WIYA)	MA Hons	17.3, 18.7
Management - Russian (WIYA) ^T	MA Hons	16.1, 18.10	Mathematics - Latin	MA Hons	17.3, 8.8
Management - Spanish	MA Hons	16.1,18.13	Mathematics - Logic & Philosophy of Science	BSc Hons	17.3, 19.3

^T Timetable clash exists

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Mathematics - Mediaeval History	MA Hons	17.3, 14.6	Mediaeval History - German (WIYA)	MA Hons	14.6,18.5
Mathematics - Modern History	MA Hons	17.3, 14.9	Mediaeval History - International Relations ^T	MA Hons	14.6, 15.1
Mathematics - Philosophy	MA Hons	17.3, 19.2	Mediaeval History - Italian	MA Hons	14.6, 18.7
Mathematics - Physics	BSc Hons	17.3, 20.3	Mediaeval History - Italian (WIYA)	MA Hons	14.6, 18.7
Mathematics - Psychology	MA Hons	17.3, 21.2	Mediaeval History - Latin	MA Hons	14.6, 8.8
Mathematics - Psychology	BSc Hons	17.3, 21.4	Mediaeval History - Mathematics	MA Hons	14.6, 17.3
Mathematics - Russian	MA Hons	17.3, 18.10	Mediaeval History - Middle East Studies	MA Hons	14.6, 14.8
Mathematics - Russian (WIYA)	MA Hons	17.3, 18.10	Mediaeval History - Philosophy	MA Hons	14.6, 19.2
Mathematics - Scottish History	MA Hons	17.3, 14.11	Mediaeval History - Psychology	MA Hons	14.6, 21.2
Mathematics - Spanish	MA Hons	17.3,18.13	Mediaeval History - Russian	MA Hons	14.6, 18.10
Mathematics - Spanish (WIYA)	MA Hons	17.3,18.13	Mediaeval History - Russian (WIYA)	MA Hons	14.6, 18.10
Mathematics - Theological Studies	MA Hons	17.3,10.3	Mediaeval History - Social Anthropology	MA Hons	14.6, 19.3
Mathematics - Theoretical Physics	MPhys Hons	17.4, 20.4	Mediaeval History - Spanish	MA Hons	14.6, 18.13
Mathematics with French	BSc Hons	17.3, 18.3	Mediaeval History - Spanish (WIYA)	MA Hons	14.6, 18.13
Mathematics with French (WIYA)	BSc Hons	17.3, 18.3	Mediaeval History - Theological Studies	MA Hons	14.6,10.3
Mathematics with Geography	BSc Hons	17.3, 13.3	Mediaeval Studies	MA Hons	14.7
Mathematics with German ^{na-08}	BSc Hons	17.3, 18.6	Medicine	BSc Hons	6.1
Mathematics with German (WIYA) ^{na-08}	BSc Hons	17.3, 18.6	Microelectronics & Photonics ^{na}	BEng	20.5
Mathematics with Russian	MA Hons	17.3, 18.12	Microelectronics & Photonics ^{na}	MEng	20.5
Mathematics with Russian (WIYA)	MA Hons	17.3, 18.12	Middle East Studies - Art History	MA Hons	14.8, 4.2
Mathematics with Russian ^{na-08}	BSc Hons	17.3, 18.12	Middle East Studies - Classical Studies	MA Hons	14.8, 8.5
Mathematics with Russian (WIYA) ^{na-08}	BSc Hons	17.3, 18.12	Middle East Studies - Economics	MA Hons	14.8, 11.3
Mathematics with Spanish	MA Hons	17.3, 18.15	Middle East Studies - English	MA Hons	14.8, 12.2
Mathematics with Spanish (WIYA)	MA Hons	17.3, 18.15	Middle East Studies - Geography	MA Hons	14.8, 13.2
Mathematics with Spanish ^{na-08}	BSc Hons	17.3, 18.15	Middle East Studies - German	MA Hons	14.8,18.5
Mathematics with Spanish (WIYA) ^{na-08}	BSc Hons	17.3, 18.15	Middle East Studies - German (WIYA)	MA Hons	14.8,18.5
Mediaeval History	MA Hons	14.4	Middle East Studies - Hebrew	MA Hons	14.8,10.2
Mediaeval History & Archaeology	MA Hons	14.4	Middle East Studies - International Relations	MA Hons	14.8, 15.1
Mediaeval History - Arabic	MA Hons	14.6, 14.1	Middle East Studies - Italian	MA Hons	14.8, 18.7
Mediaeval History - Art History	MA Hons	14.5, 4.2	Middle East Studies - Italian (WIYA)	MA Hons	14.8, 18.7
Mediaeval History - Classical Studies	MA Hons	14.6, 8.5	Middle East Studies - Latin	MA Hons	14.8, 8.8
Mediaeval History - Economics	MA Hons	14.6, 11.3			
Mediaeval History - English	MA Hons	14.6, 12.2			
Mediaeval History - French	MA Hons	14.6, 18.2			
Mediaeval History - French (WIYA)	MA Hons	14.6, 18.2			
Mediaeval History - Geography	MA Hons	14.6, 13.2			

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Middle East Studies - Mediaeval History	MA Hons	14.8, 14.6	Modern History - Theological Studies	MA Hons	14.9, 10.3
Middle East Studies - Modern History	MA Hons	14.8, 14.9	Modern Languages (Triple)	MA Hons	18.1-18.15
Middle East Studies - Russian	MA Hons	14.8, 18.10	Modern Languages (Triple) (WIYA)	MA Hons	18.1-18.15
Middle East Studies - Russian (WIYA)	MA Hons	14.8, 18.10	Modern Languages with English	MA Hons	18.1-18.15
Middle East Studies - Social Anthropology	MA Hons	14.8, 19.3	Modern Languages with English (WIYA)	MA Hons	18.1-18.15
Middle East Studies - Spanish	MA Hons	14.8, 18.13	Modern Languages with International Relations	MA Hons	18.1-18.15
Middle East Studies - Spanish (WIYA)	MA Hons	14.8, 18.13	Modern Languages with International Relations (WIYA)	MA Hons	18.1-18.15
Middle East Studies with Arabic ^{na-07}	MA Hons	14.8	Modern Languages with Linguistics ^{na-09}	MA Hons	18.1-18.15
Modern History	MA Hons	14.9	Modern Languages with Linguistics (WIYA) ^{na-09}	MA Hons	18.1-18.15
Modern History - Arabic	MA Hons	14.9, 14.1	Modern Languages with Management	MA Hons	18.1-18.15
Modern History - Art History	MA Hons	14.9, 4.2	Modern Languages with Management (WIYA)	MA Hons	18.1-18.15
Modern History - Classical Studies	MA Hons	14.9, 8.5	Molecular Biology	BSc Hons	5.7
Modern History - Economics	MA Hons	14.9, 11.3	Neuroscience	BSc Hons	5.7
Modern History - English	MA Hons	14.9, 12.2	New Testament - Classical Studies	MA Hons	10.3, 8.5
Modern History - Film Studies	MA Hons	14.9, 19.1	New Testament - German	MA Hons	10.3, 18.5
Modern History - French	MA Hons	14.9, 18.2	New Testament - German (WIYA)	MA Hons	10.3, 18.5
Modern History - French (WIYA)	MA Hons	14.9, 18.2	New Testament - Greek	MA Hons	10.3, 8.7
Modern History - Geography	MA Hons	14.9, 13.2	New Testament - Hebrew	MA Hons	10.3, 10.2
Modern History - German	MA Hons	14.9, 18.5	New Testament - Latin	MA Hons	10.3, 8.8
Modern History - German (WIYA)	MA Hons	14.9, 18.5	New Testament - Modern History	MA Hons	10.3, 14.9
Modern History - International Relations	MA Hons	14.9, 15.1	Philosophy	MA Hons	19.2
Modern History - Italian	MA Hons	14.9, 18.7	Philosophy - Ancient History	MA Hons	19.2, 8.3
Modern History - Italian (WIYA)	MA Hons	14.9, 18.7	Philosophy - Arabic	MA Hons	19.2, 12.1
Modern History - Management	MA Hons	14.9, 16.1	Philosophy - Art History	MA Hons	19.2, 4.2
Modern History - Mathematics	MA Hons	14.9, 17.3	Philosophy - Biblical Studies	MA Hons	19.2, 10.2
Modern History - Middle East Studies	MA Hons	14.9, 14.6	Philosophy - Classical Studies	MA Hons	19.2, 8.5
Modern History - New Testament	MA Hons	14.9, 10.3	Philosophy - Classics	MA Hons	19.2, 8.6
Modern History - Philosophy	MA Hons	14.9, 19.2	Philosophy - Economics	MA Hons	19.2, 11.3
Modern History - Psychology	MA Hons	14.9, 21.2	Philosophy - English	MA Hons	19.2, 12.2
Modern History - Russian	MA Hons	14.9, 18.10	Philosophy - Film Studies	MA Hons	19.2, 19.1
Modern History - Russian (WIYA)	MA Hons	14.9, 18.10	Philosophy - French	MA Hons	19.2, 18.2
Modern History - Social Anthropology ^T	MA Hons	14.9, 19.3	Philosophy - French (WIYA)	MA Hons	19.2, 18.2
Modern History - Spanish ^T	MA Hons	14.9, 18.13	Philosophy - Geography	MA Hons	19.2, 13.2

^T Timetable clash exists

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Philosophy - Greek	MA Hons	19.2, 8.8	Psychology - Economics	MA Hons	21.3, 11.3
Philosophy - International Relations	MA Hons	19.2, 15.1	Psychology - English	MA Hons	21.2, 9.2
Philosophy - Italian	MA Hons	19.2, 18.7	Psychology - Film Studies	MA Hons	21.4, 19.1
Philosophy - Italian (WIYA)	MA Hons	19.2, 18.7	Psychology - French	MA Hons	21.2, 18.2
Philosophy - Latin	MA Hons	19.2, 8.8	Psychology - French (WIYA)	MA Hons	21.2, 18.2
Philosophy - Management	MA Hons	19.2, 16.1	Psychology - Geography	MA Hons	21.2, 13.2
Philosophy - Mathematics	MA Hons	19.2, 17.3	Psychology - German	MA Hons	21.2, 18.5
Philosophy - Mediaeval History	MA Hons	19.2, 14.7	Psychology - German (WIYA)	MA Hons	21.2, 18.5
Philosophy - Modern History	MA Hons	19.2, 14.9	Psychology - International Relations	MA Hons	21.2, 15.1
Philosophy - Psychology	MA Hons	19.2, 21.2	Psychology - Italian (WIYA)	MA Hons	21.2, 18.7
Philosophy - Russian	MA Hons	19.2, 18.10	Psychology - Management	MA Hons	21.2, 16.1
Philosophy - Russian (WIYA)	MA Hons	19.2, 18.10	Psychology - Mathematics	MA Hons	21.2, 17.3
Philosophy - Scottish History	MA Hons	19.2, 14.11	Psychology - Mathematics	BSc Hons	21.4, 19.3
Philosophy - Social Anthropology	MA Hons	19.2, 19.3	Psychology - Mediaeval History	MA Hons	21.2, 14.7
Philosophy - Spanish	MA Hons	19.2, 18.13	Psychology - Modern History	MA Hons	21.2, 14.9
Philosophy - Spanish (WIYA)	MA Hons	19.2, 18.13	Psychology - Philosophy	MA Hons	21.2, 19.2
Philosophy - Statistics	MA Hons	19.2, 17.4	Psychology - Social Anthropology	MA Hons	21.2, 19.3
Philosophy - Theological Studies	MA Hons	19.2, 10.3	Psychology - Theological Studies	MA Hons	21.2, 10.3
Physical Geography & Geoscience ^{na-09}	BSc Hons	13.6	Psychology with Biology	BSc Hons	21.5, 5.3
Physics	BSc Hons	20.3	Psychology with Film Studies	MA Hons	21.5, 19.2
Physics	MPhys Hons	20.4	Psychology with Geography	MA Hons	21.6, 13.3
Physics - Chemistry	MSci	7.11, 20.4	Psychology with Linguistics ^{na-09}	MA Hons	21.6, 18.8
Physics - Computer Science	BSc Hons	20.3, 9.2	Psychology with Linguistics ^{na-09}	BSc Hons	21.6, 18.8
Physics - Internet Computer Science	BSc Hons	20.3, 9.3	Psychology with Spanish ^{na-08}	BSc Hons	21.6, 18.15
Physics - Logic & Philosophy of Science	BSc Hons	20.3, 19.3	Psychology with Spanish (WIYA) ^{na-08}	BSc Hons	21.6, 18.15
Physics - Mathematics	BSc Hons	20.3, 17.3	Pure Mathematics	MMath Hons	17.2
Physics with French ^{na-08}	BSc Hons	20.3, 18.3	Russian	MA Hons	18.9
Physics with French (WIYA) ^{na-08}	BSc Hons	20.3, 18.3	Russian (WIYA)	MA Hons	18.9
Physics with Photonics	MPhys Hons	20.4	Russian - Art History	MA Hons	18.10, 4.2
Physics with Spanish ^{na-08}	BSc Hons	20.3, 18.15	Russian - Art History (WIYA)	MA Hons	18.10, 4.1
Physics with Spanish (WIYA) ^{na-08}	BSc Hons	20.3, 18.15	Russian - Economics	MA Hons	18.10, 11.3
Physiology ^{na-08}	BSc Hons	5.7	Russian - Economics (WIYA)	MA Hons	18.10, 11.3
Psychology	MA Hons	21.1	Russian - English ^E	MA Hons	18.10, 12.2
Psychology	BSc Hons	21.1	Russian - English (WIYA) ^E	MA Hons	18.10, 12.2
Psychology - Art History	MA Hons	21.2, 4.2	Russian - Film Studies	MA Hons	18.10, 19.1
Psychology - Biology	BSc Hons	21.2, 5.2	Russian - Film Studies (WIYA)	MA Hons	18.10, 19.1
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Russian - French - German (WIYA)	MA Hons	18.1-18.15	Russian - Italian	MA Hons	18.9, 18.5
Russian - French - Italian	MA Hons	18.1-18.15	Russian - Italian (WIYA)	MA Hons	18.9, 18.5
Russian - French - Italian (WIYA)	MA Hons	18.1-18.15	Russian - Italian - Spanish	MA Hons	18.1-18.15
Russian - French - Spanish	MA Hons	18.1-18.15	Russian - Italian - Spanish (WIYA)	MA Hons	18.1-18.15
Russian - French - Spanish (WIYA)	MA Hons	18.1-18.15	Russian - Italian with English	MA Hons	18.1-18.15
Russian - French with English	MA Hons	18.1-18.15	Russian - Italian with English (WIYA)	MA Hons	18.1-18.15
Russian - French with English (WIYA)	MA Hons	18.1-18.15	Russian - Italian with International Relations	MA Hons	18.1-18.15
Russian - French with International Relations	MA Hons	18.1-18.15	Russian - Italian with International Relations (WIYA)	MA Hons	18.1-18.15
Russian - French with International Relations (WIYA)	MA Hons	18.1-18.15	Russian - Italian with Linguistics ^{na-09}	MA Hons	18.1-18.15
Russian - French with Linguistics ^{na-09}	MA Hons	18.1-18.15	Russian - Italian with Linguistics (WIYA) ^{na-09}	MA Hons	18.1-18.15
Russian - French with Linguistics (WIYA) ^{na-09}	MA Hons	18.1-18.15	Russian - Italian with Management	MA Hons	18.1-18.15
Russian - French with Management	MA Hons	18.1-18.15	Russian - Italian with Management (WIYA)	MA Hons	18.1-18.15
Russian - French with Management (WIYA)	MA Hons	18.1-18.15	Russian - Latin	MA Hons	18.10, 8.8
Russian - German	MA Hons	18.10, 18.5	Russian - Latin (WIYA)	MA Hons	18.10, 8.8
Russian - German (WIYA)	MA Hons	18.10, 18.5	Russian - Management ^T	MA Hons	18.10, 16.1
Russian - German - Italian	MA Hons	18.1-18.15	Russian - Management (WIYA) ^T	MA Hons	18.10, 16.1
Russian - German - Italian (WIYA)	MA Hons	18.1-18.15	Russian - Mathematics	MA Hons	18.10, 17.3
Russian - German - Spanish	MA Hons	18.1-18.15	Russian - Mathematics (WIYA)	MA Hons	18.10, 17.3
Russian - German - Spanish (WIYA)	MA Hons	18.1-18.15	Russian - Mediaeval History	MA Hons	18.10, 14.6
Russian - German with English	MA Hons	18.1-18.15	Russian - Mediaeval History (WIYA)	MA Hons	18.10, 14.6
Russian - German with English (WIYA)	MA Hons	18.1-18.15	Russian - Middle East Studies	MA Hons	18.10, 14.8
Russian - German with International Relations	MA Hons	18.1-18.15	Russian - Middle East Studies (WIYA)	MA Hons	18.10, 14.8
Russian - German with International Relations (WIYA)	MA Hons	18.1-18.15	Russian - Modern History	MA Hons	18.10, 14.9
Russian - German with Linguistics ^{na-09}	MA Hons	18.1-18.15	Russian - Modern History (WIYA)	MA Hons	18.10, 14.9
Russian - German with Linguistics (WIYA) ^{na-09}	MA Hons	18.1-18.15	Russian - Philosophy	MA Hons	18.10, 19.2
Russian - German with Management	MA Hons	18.1-18.15	Russian - Philosophy (WIYA)	MA Hons	18.10, 19.2
Russian - German with Management (WIYA)	MA Hons	18.1-18.15	Russian - Scottish History	MA Hons	18.10, 14.11
Russian - Hebrew	MA Hons	18.10, 10.2	Russian - Scottish History (WIYA)	MA Hons	18.10, 14.11
Russian - Hebrew (WIYA)	MA Hons	18.10, 10.2	Russian - Social Anthropology	MA Hons	18.10, 19.3
			Russian - Social Anthropology (WIYA)	MA Hons	18.10, 19.3
			Russian - Spanish	MA Hons	18.9, 18.13

^T Timetable clash exists

^E Timetable clash means that Second Level English must be taken in the first year to do this combination

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Russian - Spanish with English (WIYA)	MA Hons	18.11, 12.2	Social Anthropology - French	MA Hons	19.3, 18.2
Russian - Spanish with International Relations	MA Hons	18.11, 18.5	Social Anthropology - French (WIYA)	MA Hons	19.3, 18.2
Russian - Spanish with International Relations (WIYA)	MA Hons	18.11, 18.5	Social Anthropology - Geography	MA Hons	19.3, 13.2
Russian - Spanish with Linguistics ^{na}	MA Hons	18.11, 18.8	Social Anthropology - German	MA Hons	19.3, 18.5
Russian - Spanish with Linguistics (WIYA) ^{na}	MA Hons	18.11, 18.8	Social Anthropology - German (WIYA)	MA Hons	19.3, 18.5
Russian - Spanish with Management	MA Hons	18.11, 18.5	Social Anthropology - International Relations	MA Hons	19.3, 15.1
Russian - Spanish with Management (WIYA)	MA Hons	18.11, 18.5	Social Anthropology - Italian	MA Hons	19.3, 18.7
Russian with Geography	MA Hons	18.11, 13.3	Social Anthropology - Italian (WIYA)	MA Hons	19.3, 18.7
Russian with Geography (WIYA)	MA Hons	18.11, 13.3	Social Anthropology - Mediaeval History	MA Hons	19.3, 14.6
Russian with Linguistics ^{na-09}	MA Hons	18.12, 18.11	Social Anthropology - Middle East Studies	MA Hons	19.3, 14.8
Russian with Linguistics (WIYA) ^{na-09}	MA Hons	18.12, 18.11	Social Anthropology - Modern History ^T	MA Hons	19.3, 14.9
Science (General Degree)	BSc Gen		Social Anthropology - Philosophy	MA Hons	19.3, 19.2
Scottish History	MA Hons	14.10	Social Anthropology - Psychology	MA Hons	19.3, 21.2
Scottish History - Classical Studies	MA Hons	14.11, 8.5	Social Anthropology - Russian	MA Hons	19.3, 18.10
Scottish History - English	MA Hons	14.11, 12.2	Social Anthropology - Russian (WIYA)	MA Hons	19.3, 18.10
Scottish History - Film Studies	MA Hons	14.11, 19.1	Social Anthropology - Scottish History	MA Hons	19.3, 14.11
Scottish History - Geography	MA Hons	14.11, 13.2	Social Anthropology - Spanish ^T	MA Hons	19.3, 18.13
Scottish History - International Relations	MA Hons	14.11, 15.1	Social Anthropology - Spanish (WIYA) ^T	MA Hons	19.3, 18.13
Scottish History - Italian	MA Hons	14.11, 18.7	Social Anthropology - Theological Studies	MA Hons	19.3, 10.3
Scottish History - Italian (WIYA)	MA Hons	14.11, 18.7	Social Anthropology with Geography	MA Hons	19.4, 13.3
Scottish History - Mathematics	MA Hons	14.11, 17.3	Social Anthropology with Linguistics ^{na-09}	MA Hons	19.4, 18.8
Scottish History - Philosophy	MA Hons	14.11, 19.2	Spanish	MA Hons	18.12
Scottish History - Russian	MA Hons	14.11, 18.10	Spanish (WIYA)	MA Hons	18.12
Scottish History - Russian (WIYA)	MA Hons	14.11, 18.10	Spanish - Ancient History	MA Hons	18.13, 8.2
Scottish History - Social Anthropology	MA Hons	14.11, 19.3	Spanish - Ancient History (WIYA)	MA Hons	18.13, 8.2
Scottish History - Spanish	MA Hons	14.11, 18.13	Spanish - Arabic	MA Hons	18.13, 14.1
Scottish History - Spanish (WIYA)	MA Hons	14.11, 18.13	Spanish - Arabic (WIYA)	MA Hons	18.13, 14.1
Social Anthropology	MA Hons	19.3	Spanish - Art History	MA Hons	18.13, 4.2
Social Anthropology - Arabic	MA Hons	19.3, 14.1	Spanish - Art History (WIYA)	MA Hons	18.13, 4.2
Social Anthropology - Art History	MA Hons	19.3, 4.2			
Social Anthropology - Classical Studies	MA Hons	19.3, 8.5			
Social Anthropology - Economics	MA Hons	19.3, 11.3			

Undergraduate Degree List - August 2009

Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
Spanish - Classics	MA Hons	18.13, 8.6	Spanish - German with International Relations (WIYA)	MA Hons	18.1-18.15
Spanish - Classics (WIYA)	MA Hons	18.13, 8.6	Spanish - German with Linguistics ^{na}	MA Hons	18.1-18.15
Spanish - Economics	MA Hons	18.13, 11.3	Spanish - German with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15
Spanish - Economics (WIYA)	MA Hons	18.13, 11.3	Spanish - German with Management	MA Hons	18.1-18.15
Spanish - English	MA Hons	18.13, 12.2	Spanish - German with Management (WIYA)	MA Hons	18.1-18.15
Spanish - English (WIYA)	MA Hons	18.13, 12.2	Spanish - Greek	MA Hons	18.13, 8.7
Spanish - Film Studies	MA Hons	18.13, 19.1	Spanish - Greek (WIYA)	MA Hons	18.13, 8.7
Spanish - Film Studies (WIYA)	MA Hons	18.13, 19.1	Spanish - International Relations	MA Hons	18.13, 15.1
Spanish - French	MA Hons	18.13, 18.5	Spanish - International Relations (WIYA)	MA Hons	18.13, 15.1
Spanish - French (WIYA)	MA Hons	18.13, 18.5	Spanish - Italian	MA Hons	18.13, 18.5
Spanish - French - German	MA Hons	18.1-18.15	Spanish - Italian (WIYA)	MA Hons	18.13, 18.5
Spanish - French - German (WIYA)	MA Hons	18.1-18.15	Spanish - Italian - Russian	MA Hons	18.1-18.15
Spanish - French - Italian	MA Hons	18.1-18.15	Spanish - Italian - Russian (WIYA)	MA Hons	18.1-18.15
Spanish - French - Italian (WIYA)	MA Hons	18.1-18.15	Spanish - Italian with English	MA Hons	18.1-18.15
Spanish - French - Russian	MA Hons	18.1-18.15	Spanish - Italian with English (WIYA)	MA Hons	18.1-18.15
Spanish - French - Russian (WIYA)	MA Hons	18.1-18.15	Spanish - Italian with International Relations	MA Hons	18.1-18.15
Spanish - French with English	MA Hons	18.1-18.15	Spanish - Italian with International Relations (WIYA)	MA Hons	18.1-18.15
Spanish - French with English (WIYA)	MA Hons	18.1-18.15	Spanish - Italian with Linguistics ^{na-09}	MA Hons	18.1-18.15
Spanish - French with International Relations	MA Hons	18.1-18.15	Spanish - Italian with Linguistics (WIYA) ^{na-09}	MA Hons	18.1-18.15
Spanish - French with International Relations (WIYA)	MA Hons	18.1-18.15	Spanish - Italian with Management	MA Hons	18.1-18.15
Spanish - French with Linguistics ^{na}	MA Hons	18.1-18.15	Spanish - Italian with Management (WIYA)	MA Hons	18.1-18.15
Spanish - French with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	Spanish - Latin	MA Hons	18.1-18.15
Spanish - French with Management	MA Hons	18.1-18.15	Spanish - Latin (WIYA)	MA Hons	18.13, 8.8
Spanish - French with Management (WIYA)	MA Hons	18.1-18.15	Spanish - Management	MA Hons	18.13, 16.1
Spanish - Geography	MA Hons	18.13, 13.2	Spanish - Management (WIYA)	MA Hons	18.13, 16.1
Spanish - Geography (WIYA)	MA Hons	18.13, 13.2	Spanish - Mathematics	MA Hons	18.13, 17.3
Spanish - German	MA Hons	18.13, 18.5	Spanish - Mathematics (WIYA)	MA Hons	18.13, 19.3
Spanish - German (WIYA)	MA Hons	18.13, 18.5	Spanish - Mediaeval History	MA Hons	18.13, 14.6
Spanish - German - Italian	MA Hons	18.1-18.15	Spanish - Mediaeval History (WIYA)	MA Hons	18.13, 14.6
Spanish - German - Italian (WIYA)	MA Hons	18.1-18.15	Spanish - Middle East Studies	MA Hons	18.13, 14.8
Spanish - German - Russian	MA Hons	18.1-18.15	Spanish - Middle East Studies (WIYA)	MA Hons	18.13, 14.8
Spanish - German - Russian (WIYA)	MA Hons	18.1-18.15	Spanish - Modern History ^T	MA Hons	18.13, 14.9
Spanish - German with English	MA Hons	18.1-18.15			
Spanish - German with English (WIYA)	MA Hons	18.1-18.15			
Spanish - German with International Relations	MA Hons	18.1-18.15			

^T Timetable clash exists

^E Timetable clash means that Second Level English must be taken in the first year to do this combination

Undergraduate Degree List - August 2009

Degree Name	Award Type	Page(s)	Degree Name	Award Type	Page(s)
Spanish - Modern History (WIYA) ^T	MA Hons	18.13, 14.9	Statistics - Internet Computer Science	BSc Hons	13.5, 9.3
Spanish - Philosophy	MA Hons	18.13, 19.2	Statistics - Logic & Philosophy of Science	BSc Hons	17.4, 19.3
Spanish - Philosophy (WIYA)	MA Hons	18.13, 19.2	Statistics - Management Science	BSc Hons	17.4, 16.3
Spanish - Russian	MA Hons	18.13, 18.5	Statistics - Philosophy	MA Hons	17.4, 19.2
Spanish - Russian (WIYA)	MA Hons	18.13, 18.5	Sustainable Development	BSc Hons	22.1
Spanish - Russian with English	MA Hons	18.1-18.15	Sustainable Development	MA Hons	22.1
Spanish - Russian with English (WIYA)	MA Hons	18.1-18.15	Theological Studies	MA Hons	10.3
Spanish - Russian with International Relations	MA Hons	18.1-18.15	Theological Studies - Classical Studies	MA Hons	10.3, 8.5
Spanish - Russian with International Relations (WIYA)	MA Hons	18.1-18.15	Theological Studies - English	MA Hons	10.3, 12.2
Spanish - Russian with Linguistics ^{na}	MA Hons	18.1-18.15	Theological Studies - Film Studies	MA Hons	10.3, 19.1
Spanish - Russian with Linguistics (WIYA) ^{na}	MA Hons	18.1-18.15	Theological Studies - French	MA Hons	10.3, 18.2
Spanish - Russian with Management	MA Hons	18.1-18.15	Theological Studies - French (WIYA)	MA Hons	10.3, 18.2
Spanish - Russian with Management (WIYA)	MA Hons	18.1-18.15	Theological Studies - Geography	MA Hons	10.3, 13.2
Spanish - Scottish History	MA Hons	18.13, 14.11	Theological Studies - German	MA Hons	10.3, 18.5
Spanish - Scottish History (WIYA)	MA Hons	18.13, 14.11	Theological Studies - German (WIYA)	MA Hons	10.3, 18.5
Spanish - Social Anthropology ^T	MA Hons	18.13, 19.3	Theological Studies - International Relations	MA Hons	10.3, 15.1
Spanish - Social Anthropology (WIYA) ^T	MA Hons	18.13, 19.3	Theological Studies - Mathematics	MA Hons	10.3, 17.3
Spanish - Theological Studies	MA Hons	18.13, 10.3	Theological Studies - Mediaeval History	MA Hons	10.3, 14.8
Spanish - Theological Studies (WIYA)	MA Hons	18.13, 10.3	Theological Studies - Modern History	MA Hons	10.3, 14.9
Spanish with Geography	MA Hons	18.14, 13.3	Theological Studies - Philosophy	MA Hons	10.3, 19.2
Spanish with Geography (WIYA)	MA Hons	18.14, 13.3	Theological Studies - Psychology	MA Hons	10.3, 21.2
Spanish with Linguistics ^{na-09}	MA Hons	18.14, 18.8	Theological Studies - Social Anthropology	MA Hons	10.3, 19.3
Spanish with Linguistics (WIYA) ^{na-09}	MA Hons	18.14, 18.8	Theological Studies - Spanish	MA Hons	10.3, 18.13
Statistics	MA Hons	17.4	Theological Studies - Spanish (WIYA)	MA Hons	10.4, 18.13
Statistics	BSc Hons	17.4	Theological Studies with Linguistics ^{na-09}	MA Hons	10.4, 18.8
Statistics	MMath Hons	17.2	Theology	MTheolHons	10.4
Statistics - Computer Science	BSc Hons	17.4, 9.2	Theoretical Physics	MPhys Hons	20.5
Statistics - Economics	MA Hons	17.4, 11.3	Theoretical Physics - Mathematics	MPhys Hons	20.5, 17.4
Statistics - Economics	BSc Hons	17.4, 11.3	Zoology	BSc Hons	5.8
Statistics - Geography	BSc Hons	17.4, 13.2			

School of Art History

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours): Art History For students enrolled before 2007-08	Single Honours Art History Degree: Level 1: 20 credits from passes at either AH1001 or AH1003. Level 2: 40 credits from passes at 11 or better in both AH2001 and AH2002. Level 3: No more than 60 credits may be taken from 3000 level modules. Level 4: AH4099 OR AH4097 and at least a further 180 credits in Art History Honours modules (from 3000/4000 level OR from 4000 level in which at least one module is in a subject area before 1800 and at least one in a subject area post 1800). Other Information: The total number of Art History credits required at Levels 3 and 4 is 210 (where 30 ' dip across ' credits are being offered) or 240 (where no ' dip-across' credits are being offered).
(M.A. Honours): Art History For students enrolled 2007-08 or after	Single Honours Art History Degree: Level 1: 20 credits from passes at either AH1001 or AH1003. Level 2: 40 credits from passes at 11 or better in both AH2001 and AH2002. Level 3: 30 credits from AH3130 Level 4: either 30 credits from AH4099 or 60 credits from AH40907 Levels 3 & 4: No more than 90 credits may be taken from Level 3 modules, 30 credits of which must be in AH3130. At least one module should be in a subject area pre-1800 and at least one in a subject area post-1800 Other Information: The total number of Art History credits required at Levels 3 and 4 is 210 (where 30 ' dip across ' credits are being offered) or 240 (where no ' dip-across' credits are being offered).

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours):</p> <p>Joint Honours Art History and Ancient History, Arabic, Biblical Studies, Classical Studies, English, Film Studies, French[^], Geography, German[^], Greek, Hebrew, International Relations, Italian[^], Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Russian[^], Social Anthropology, Spanish[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Art History element of Joint Honours Degrees:</p> <p>Level 1: 20 credits from passes at either AH1001 or AH1003.</p> <p>Level 2: 40 credits from passes at 11 or better in both AH2001 and AH2002.</p> <p>Level 3: No more than 60 credits may be taken from Level 3 modules.</p> <p>Level 4: 90 credits in Art History 3000-level or 4000-level modules or from 4000-level modules including AH4099 or AH4097.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000 level-modules must consult with the relevant Honours Adviser within the School before making their selection.

Art History (AH) Modules

AH3087 Aspects of Surrealism

Credits: 30 Semester: 2

Availability: 2010-11

Description: The module will present a survey of Surrealist visual art (c 1918-1939) and will consider key figures in the movement: the writers André Breton and Georges Bataille; the painters and sculptors André Masson, Joan Miró, Pablo Picasso, Salvador Dali, and Max Ernst; and the photographers André Boiffard, Brassai and Man Ray. In artistic terms, Surrealism defined itself through attempts to question and exceed traditional models of representation, a problem which individual artists sought to address in painting as well as by exploring a range of alternative media and techniques such as collage, photography, film, and 'objects'. The module will explicitly draw attention to connections between Surrealism and those concepts which structure the broader history of twentieth-century art: avant-gardism, modernism, challenges to the traditional notion of art as mimesis, calls for an anti-art and an anti-aesthetic, inter-relationship between the visual and the verbal, the link between aesthetic, sexual and political revolution.

Class Hour: 3.00 - 5.00 pm Tuesday and either 3.00 pm or 4.30 pm Thursday

Teaching: Two 1 hour lectures and one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%.

AH3104 The Age of Klimt, Olbrich, and Mucha

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module analyses the development of the central European variations of Art Nouveau known as the Secession Style. Focusing on the Austro-Hungarian empire (in particular the cities of Vienna, Budapest, Prague and Cracow), it examines the new art, architecture and design with regard to its aims and themes. Emphasis is placed on the relationship between the artistic search for cultural identity, the state and contemporary society. Issues of nationalism and supranationalism will be analysed in the course of studying the work of the Vienna Secession and Wiener Werkstätte, the Gödöllő colony, the Mánes and Sztuka societies. Major figures include Klimt, Wagner, Hoffmann, Olbrich, Lechner, Mucha, Rippl-Rónai and Wyspianski.

Class Hour: 2.00 pm Monday and 9.00 am Tuesday and *either* 9.00 *or* 10.00 am Wednesday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH3116 Aspects of American Art in the Twentieth Century

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module will study key aspects of American art in the 20th century. At its core will be the examination of the dialogue between realism and abstraction in American painting. The year 1947 will be the fulcrum for the study for this appears to mark the abandoning of a democratic, open and accessible art, in the painting of Hopper, Shahn and the neo-realists. And, concomitantly, the emerging ‘triumph’ of American abstraction in the work of Pollock, Rothko, et.al. This process will be conceptualized historically, culturally, and ideologically through a close study of the visual material.

Class Hour: 11.00 am – 1.00 pm Tuesday and either 11.00 am or 12 noon Friday.

Teaching: One 2 hour lecture, one seminar, tutorials as required.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH3118 European Gothic Architecture 1140-1540

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module examines European Gothic architecture from its origins in 12th-century France to the end of the Middle Ages. There will be a particular focus on ecclesiastical architecture, and on English and French Gothic, for it is in these fields that the growth and formal development of the style is best understood. Individual lectures will be devoted to Gothic architecture in Scotland, Germany, the Low Countries, Spain, Italy, and Central Europe. This module will not adopt a purely formalist approach. Issues of function and embellishment will be discussed where relevant to an understanding of Gothic architecture, and students will have an opportunity to address them in their coursework.

Class Hour: 11.00 am – 1.00 pm Monday and *either* 3.00pm Monday *or* 3.00 pm Tuesday.

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Art History – Honours 2009/10 – August 2009

AH3121 Histories of Photography, 1835-1905

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module examines the diverse histories of photography in the nineteenth century from the beginnings of the medium to the rise of modernist photography. Among numerous topics, the module examines ware photography in Victorian Britain, portraiture and celebrity, imperial landscapes, the modern city, exploration photography, Kodak and modern tourism, and the body of photography. Students will become familiar with the work of major photographers of the period, including Fox Talbot, Hill and Adamson, Julia Margaret Cameron, Lady Hawarden, Lewis Carroll, Nadar and Alexander Gardner.

Class Hour: 11.00 am – 1.00 pm Wednesday and *either* 9.00 am *or* 11.00 am on Thursday

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH3122 The British Country House, 1650 - 1800

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will cover the architecture and history of the country house in Great Britain from shortly before the restoration of the monarch in 1660 to the close of the earlier stages of Neo-Classicism in the years around 1800. The leading emphasis will be on the architectural forms that were given to country houses built over the 150 years to be covered. But within this context consideration will be given to how the houses both reflected and orchestrated the way of life they were intended to accommodate, to the range of ways in which they might be fitted out internally, and to the landscape setting within which they were located. The economics of construction and landscaping will be briefly considered. The Scottish country house will be given full weight, and it is intended that visits will be paid to a number of houses.

Class Hour: Friday 9.00 am – 11.00 am and *either* 2.00 pm *or* 3.00pm

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 50%, Three Hour Examination = 50%

AH3130 Approaches to Art History

Credits: 30 Semester: 1

Programme(s): This is a compulsory module for all Single Honours Art History students. It is optional for Joint Honours students.

Description: This module examines the approaches and methods applied in Art History. These practices are examined within the following strands: Style and Form; Iconography; Social Histories; Gender and Sexuality; Geographies; Designed/Articulated Space. Issues concerning the interpretation of the function, meaning, context and reception of art objects and architecture are addressed. Integral to this examination of Art History's tools and ideas is the analysis of a variety of artistic media and genres from different times and societies. A component of the survey of media and genre is the study of the expressive conventions of elements such as colour, line, texture and space. The module begins with an introduction to the practical formulation of art historical disclosure. The combined parts of the module's overview lead to an elaboration of the use, relativity and politics of Art History as a discipline.

Class Hour: 11.00 am - 1.00 pm Monday and either 12.00 noon or 3.00pm Tuesday or 10.00 or 11.00 am Wednesday

Teaching: One lecture, one seminar and one tutorial.

Assessment: Continuous Assessment = 100%

AH4076 Rubens and Rembrandt: Parallel Worlds

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module examines seventeenth century Netherlandish art with reference to the careers and works of Peter Paul Rubens (1577-1640) and Rembrandt Harmenzoon van Rijn (1606-69). The contrasting oeuvres of Rubens and Rembrandt – the most important exponents of Baroque painting north of the Alps – will be considered from a thematic rather than chronological point of view. Rubens's religious, mythological, political-allegorical, portrait and landscape works, and Rembrandt's representation of subjects from the Old Testament, the New Testament, mythology and topography, as well as his portraiture (including self-portraiture), will be major foci.

Class Hour: Monday 11.00 am and *either* 3.00 pm Monday *or* 3.00 pm Tuesday.

Teaching: One 2 hour lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4077 Patronage and Collecting at the Courts of Charles I and Philip IV

Credits: 30 Semester: 2

Availability: 2009-10

Description: The module is concerned with the twin activities of art patronage and art collecting at two early seventeenth-century courts: those of Charles I of England, and of Philip IV of Spain. The motivations, political and aesthetic, of the two monarchs and their courtiers in assembling great collections of Italian Renaissance art will be assessed and compared. A similar comparison will be drawn between their patronage of living painters of the stature of Rubens, Van Dyck and Velázquez. Linking these two themes will be an assessment of the effect on these painters of their contact with royal and aristocratic collections. Comparisons will also be made between the artistic activities of the courts of England and Spain, and those of other European courts of the period, such as those of Louis XIII of France.

Class Hour: 9.00 am and 4.00 pm Monday and *either* 10.00 am Monday *or* 10.00 am Tuesday.

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4078 Art and Politics in France, 1945-1975

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module examines the major artists and groups in French postwar art through a consideration of aesthetic features and theoretical issues in tandem with their social and political context. The problems facing the neo-avant garde following the war will be assessed by looking at topics such as Dubuffet and Art Brut, Socialist Realism, Giacometti and Existentialist philosophy, abstract painting, Yves Klein and the "New Realists", the Cobra group, the Situationists and the May '68 uprising, and post-1968 projects by Daniel Buren, Christian Boltanski and Annette Messager. Additional topics for discussion include the relationship of French culture to British and American culture, 1950s design, New Wave cinema, and the impact of the Cold War and the Algerian War.

Class Hour: 3.00 pm - 5.00 pm Tuesday, and *either* 3.00 pm or 4.30 pm Thursday.

Teaching: One two-hour lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Art History – Honours 2009/10 – August 2009

AH4080 Northern Renaissance Art

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module examines the evolution of painting, and to a lesser extent sculpture, in the Low Countries and France during the second half of the fourteenth, the fifteenth and the early sixteenth centuries. Some attention will also be paid to German art. The module begins with manuscript illumination in France and Burgundy, before moving on to examine the rich depth and variety of the major Netherlandish panel painters of the fifteenth century: the work of Robert Campin, Jan Van Eyck, Rogier van der Weyden, Hugo van der Goes, Petrus Christus, Dirck Bouts, Hans Memling, and Gerard David will be explored in all its depth and variety. The module concludes with a consideration of the works of Heironymus Bosch and the German limewood sculptor Tilman Riemenschneider.

Class Hour: 11.00 am – 1.00 pm Monday and *either* 3.00 pm Monday *or* 3.00 pm Tuesday

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4097 60-Credit Dissertation in Art History

Credits: 60 Semester: Whole Year

Prerequisites: Available only to students in the second year of the Honours Programme. Compulsory to Single Honours students not taking AH4099.

Anti-requisite: AH4099

Description: The dissertation will be valued as 60 credits and completed over two semesters. It will be a minimum of 10,000 words and in no circumstances more than 15,000 words in length. Topics must be capable of being supervised by the School's established staff and each student will (a) be assigned a supervisor, who will be available to discuss issues related to the dissertation throughout both semesters, and (b) be required to attend one general lecture on research and at least one 50 minute supervisory meeting per semester.

Assessment: Dissertation = 100%

AH4099 30-Credit Dissertation in Art History

Credits: 30 Semester: Whole Year

Availability: Available only to students in the second year of the Honours Programme. Compulsory to Single Honours students not taking AH4097.

Anti-requisite: AH4097

Description: The dissertation will be valued at 30 credits and completed over two semesters. It will be a minimum of 7,000 words, and in no circumstances more than 10,000 words in length. Topics must be capable of being supervised by the School's established staff and each student will (a) be assigned a supervisor, who will be available to discuss issues related to the dissertation throughout both semesters, and (b) be required to attend one general lecture on research and at least one 50 minute supervisory meeting.

Assessment: Dissertation = 100%

AH4105 British Furniture 1700-1840

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will trace the development of furniture design in Britain from 1700 until the early years of Victoria. Introductory seminars will assess the importance of pattern books, price books, contemporary documents, bills and prints. The major part of the module will be a systematic analysis of furniture design variants during the eighteenth century, with particular emphasis on well-documented makers such as Thomas Chippendale the Elder. Throughout, students will be encouraged to observe and interpret furniture from a historical viewpoint and to explore the validity of different methods of approaching the subject.

Class Hour: 9.00 - 11.00 am and *either* 12.00 noon *or* 1.00 pm Thursday.

Teaching: One 2 hour lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4106 British Furniture 1840-1920

Credits: 30 Semester: 2
Availability: 2009-10

Description: The module begins with an introductory study of different methods of analysing furniture and from this foundation the syllabus moves from the transitional phase of furniture design at the beginning of Victoria's reign through the Antiquarian and Gothic revivals, reforms in the vocabulary of ornament, Neoclassical and Renaissance revivals, to the Arts and Crafts movement and 'progressive' furniture in the late nineteenth and early twentieth centuries. Particular issues which will be addressed include regionalism, vernacular traditions, furniture design and manufacture, furniture as art and furniture designed by architects.

Class Hour: 9.00 - 11.00 am and *either* 12.00 noon *or* 1.00 pm Thursday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4107 Wyndham Lewis and English Art 1900-1939

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module aims to examine the complex historical processes which shaped English art in the first four decades of the twentieth century. It will relate artistic change to broader social, political and cultural developments. The module will focus on the key developments in English avant-gardism in the period circa 1913, and on the emergence of a second avant-garde in the 1930s. A central figure in the module will be Wyndham Lewis whose career allows us to concentrate on important themes in critical and aesthetic theory.

Class Hour: 11.00 am - 1.00 pm Tuesday, and *either* 11.00 am *or* 12.00 noon Friday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4108 Contemporary Scottish Painting 1950-Present

Credits: 30 Semester: 2
Availability: 2010-11

Description: This module will explore subjects, issues, and themes in recent Scottish art. From an analysis of post-war abstraction, it will proceed to be a close study of the renaissance of figurative painting during the 1980s. Subsequent developments in Conceptualism, in the 1990s, will be examined in depth while the whole will be set inside the critical debates of modernism and post-modernism in the contemporary period.

Class Hour: 11.00 am - 1.00 pm Tuesday, and *either* 11.00 am *or* 12.00 noon Friday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4130 Realism and Symbolism in Russian Art 1860-1910

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module examines the development of Russian art from the appearance of 'romantic realism' in the 1820s, through that of 'critical realism' in the mid-nineteenth century to the introduction of symbolist values around 1900. Special emphasis is laid on the relationship of the Academy with the exponents of the new trends. Accepted interpretations will be scrutinised with the various movements and individuals (such as Repin, Surikov, Perov, Vasnetsov, Levitan, Kramskoy, Nesterov and Serov) being studied in relation to social and political demands, patronage, aesthetic theories and the continuing tensions between 'native' traditions and 'western' ideas.

Class Hour: 2.00 pm Monday and 9.00 am Tuesday and *either* 9.00 *or* 10.00 am Wednesday.

Teaching: Three classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Art History – Honours 2009/10 – August 2009

AH4131 The New Style in Eastern Europe: Art Nouveau and National Romanticism 1890-1914

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module examines the development of the so-called 'New Style', the east European variation of Art Nouveau with its admixture of National Romanticism. Concentrating on the modern architecture and applied arts created within the lands of the Russian empire attention is focused on the relationship between nationalist aspirations and the desire for European integration. The movements considered include Nordic Romanticism in Russian design, Karelianism in Finland and Jugendstil in Latvia. Explored within these is the role of major figures and artists' colonies, including Gallen-Kallela, Saarinen, Shekhtel, Vrubel, Korovin, Rozentals, Eisenstein, and the Abramtsevo and Talashkino colonies.

Class Hour: 2.00 pm Monday and 9.00 am Tuesday and *either* 9.00 or 10.00 am Wednesday.

Teaching: Three classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4132 Titian and His Age

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will study secular art in Venice in the middle years of the sixteenth century (c.1530-1570), and will lay particular emphasis on the relationship between art and domestic and international politics. Attention will be paid to the work not only of the outstanding Venetian painter of the period, Titian, but also that of the architect Palladio and the sculptor-architect Sansovino.

Class Hour: 9.00 am and 4.00 pm Monday and *either* 10.00 am Monday *or* 10.00 am Tuesday.

Teaching: Two 1 hour lectures and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4133 Venetian Art in the Age of Reform

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module is concerned with the impact of the religious crisis of the Reformation and Counter-Reformation on Venetian art of the mid to late sixteenth century. Among the artists to be studied are the painters Titian, Tintoretto and Veronese, the sculptors Vittoria and Campagna, and the architects Sansovino and Palladio, all of whom responded in their different ways to the changing religious mood and to the new religious needs of their age.

Class Hour: 9.00 am and 4.00 pm Monday and *either* 10.00 am Monday *or* 10.00 am Tuesday.

Teaching: Two 1 hour lectures and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4134 Sculpture and Society in Early Renaissance Italy c. 1260-1400

Credits: 30 Semester: 2

Availability: 2009-10

Description: Late thirteenth- and early fourteenth-century Italy produced a distinctive flavour of Gothic sculpture based on north European models and Italy's own antique past. This module will survey the craft of sculpture as it was practised in Italy from Nicola Pisano c. 1250 up to the early years of the fifteenth century. The aim of the module is to encourage understanding of this pivotal phase of Italian art and to situate the achievement of its sculptors within the contexts of the mediaeval craft tradition and contemporary developments in Italian society.

Class Hour: 10.00 am Tuesday and 9.00 am Wednesday and *either* 11.00 am Tuesday *or* 10.00 am Wednesday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4135 Sculpture in Italy from Donatello to Verrocchio

Credits: 30 Semester: 1

Availability: 2010-11

Description: The fifteenth century in Italy was one of the high points in the history of European sculpture. This module will examine the sculpture that was produced in Italy from around 1400 until the 1480s. The aim of the module is to encourage appreciation of the innovations introduced by early Renaissance sculptors such as Donatello, Ghiberti and Verrocchio and to set them within the theoretical and intellectual contexts of the time.

Class Hour: 10.00 am Tuesday and 9.00 am Wednesday and *either* 11.00 am Tuesday *or* 10.00 am Wednesday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4139 Scottish Photography and its Context

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will examine Scottish photography between c.1860 and the contemporary period. It will be divided into three areas of study; the landscape tradition, the documentary tradition, and issues in 'art' photography. These themes will be studied independently, but also in relation to a number of relevant contexts. These will include; the influence of Scottish art on photography, the relationship between photography in Europe and America and photography in Scotland, the aesthetic debates surrounding the status of the photograph as art object.

Class Hour: 11.00 am - 1.00 pm Tuesday and either 11.00 am or 12.00 noon Friday.

Teaching: Two classes.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4140 The Grand Tour: Artistic Relations between Britain and Italy in the Eighteenth Century

Credits: 30 Semester: 2

Availability: 2010-11

Description: Travelling for education and pleasure, and particularly to Italy, reached new heights of popularity in the eighteenth century. The experience was to have a decisive impact on British art and taste. This module will examine the phenomenon of the Grand Tour in its artistic manifestations to be explored under the following headings: the Social and Cultural World of Tourists; Sights and Cicerones; the Lure of the Antique; British artists in Italy; Portraitists and Landscapists; Patrons and Teachers; Italian artists in Britain; Dealers and Collectors; Souvenirs.

Class Hour: 10.00 am Tuesday, 9.00 am Wednesday and *either* 11.00 am Tuesday *or* 10.00 am Wednesday.

Teaching: Two lectures, one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%.

AH4142 Aspects of Modern Photography, 1910-1955

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module traces the history of modern European and American photography during the first part of the twentieth century. Key figures and aspects which will be examined include: Stieglitz and his circle, the documentary style as seen in the work of Atget, Auguste Sander, Walker Evans and the FSA photographers, the modernist "New Vision" of Moholy-Nagy and others, Surrealist photography, Henri Cartier-Bresson, the Magnum agency and humanist photography. Through a consideration of aesthetic features, theoretical issues and technical developments in tandem with their social and political context, key questions of photographic practice will be examined, such as: the role of the photograph as a document of truth or reality; the importance of fashion, advertising and press photography; the articulation of a modernist or avant-garde photographic aesthetic.

Class Hour: 3.00 – 5.00 pm Tuesday and *either* 3.00 pm Thursday *or* 4.30 pm Thursday.

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Art History – Honours 2009/10 – August 2009

AH4145 Palladio and Palladianism (c.1540 - c.1800)

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module traces Palladio's formation and development as an architect in the sixteenth century and the invention of a Palladian style in the seventeenth and eighteenth centuries. Students will be instructed in Palladio's architectural heritage, ancient and Renaissance, as well as learn the lexicon of classical architecture. Special attention will be given to Palladio's archaeological researches, theory of proportion and the normative and universalizing character with which his architecture was attributed. As a result of tracing Palladio's influences and influence, students will become conversant with major architects from Bramante, Bernini, Giulio Romano, Sansovino, Serlio to their British "grandchildren" Burlington, Campbell and Chambers.

Class Hour: 11am – 1pm Thursday and Wednesday *either* 9am or 11am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4150 A History of the Dome, from the Pantheon to the Millennium

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module traces the history of the dome over two millennia, from Temples to the Gods to Temples to the State, and from cosmic archetype to architectural typology in search of content. The narrative is chronological but intertwines themes of the dome as microcosm, religious symbol, object of structural innovation, urban landmark, and national or political monument. It reviews not only built domes but the illusion of the dome. Students will learn about ancient and mediaeval cosmology, engineering, social, religious and political history. Individual case studies will make students conversant with landmark monuments and major architects from Hadrian to Richard Rogers and textual sources from classical texts to contemporary journalism.

Class Hour: 11.00 am – 1.00 pm Wednesday and Thursday *either* 10.00 am or 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4151 Architecture & Culture in Rome, c.1564 – 1766

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module investigates the architecture and urbanism of Rome, and its broader influence on Italian and European architecture. It will trace evolving concepts of urbanism as public ceremonial theatre; representational buildings for secular patrons and religious institutions; the use of new materials and technologies; the development of church design from Counter Reform "room-type" church through centralized and oval churches; the illusionistic space of the family chapel; the planning of the Baroque palace and its relationship to urban space; and the translation of the Baroque palace into a new speculative building type in the 18th century, the apartment building; and festival ephemera. The module will also explore the decisive contribution of the water network to the city layout and the scenographic design of new fountains, and the characteristics of baroque architecture that joins with the other arts in the creation of a unity of the arts and new symbolic uses of actual light in building.

The module will begin by tracing the origins of Baroque architecture from the last works of Michelangelo, to examine the works of Vignola, Maderno, della Porta, Bernini, Borromini, Rainaldi, Cortona, Gherardi, Carlo Fontana, Nicola Salvi, Francesco De Sanctis, Nicola Michetti, through to c/1750, to Piranesi.

Class Hour: Tuesday 3.00 pm – 5.00 pm and Wednesday *either* 10.00 am or 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4152 To School? Learning: Artistic Impressions and Architectural Solutions

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module is a multi-media and cross-temporal investigation into the sites and signs of modern schooling. It focuses on the treatment of 'learning' subjects by artists and photographers together with the development of school architecture. While considerable reference is made to early post-Renaissance work, most attention is given to the achievement of the nineteenth and twentieth centuries. Among the topics covered are 'Great Architects/Great Schools', 'The Classroom', 'The Teacher', 'The Pupil', 'Church/State', 'Documentation/Memory/Imagination'. Students will become familiar with the school buildings of architects such as Wren, Mackintosh, Lloyd Wright, Gropius, the Smithsons and Hecker. Similarly, they will be enabled to interpret in a new light the approach of artists/photographers such as Holbein, Breugel, Steen, Doisneau, Moholy-Nagy, Kantor and Rivera.

Class Hour: Monday 2.00 pm, Tuesday 9.00 am and Wednesday *either* 9.00 am *or* 10.00

Teaching: Two lectures and one seminar.

Assessment: Continuous Assessment = 100%

AH4155 New York Modernism: Encounters at Mid-Century

Credits: 30 Semester: 1

Availability: not available 2009-10

Description: This module offers an in-depth study of one of the most compelling episodes in twentieth-century Modernism. We shall focus on the paintings, sculptures and performance-based practices which were produced in and around New York between the early 1940s and the early 1960s. Amongst others, we will be looking at works by Pollock, Krasner, Rothko, Reinhardt, Smith, Chamberlain, Newman, de Kooning, Frankenthaler, Kaprow, Johns and Rauschenberg. We shall consider how they were received, assess the works' relation to the cultural and political climate of mid-century America, and explore the critical vocabularies which were deployed to make sense of them. Special focus will be given to questions pertaining to the nature of abstraction, the formation of an American avant-garde, gender, sexuality and artistic self-fashioning. The module will also include a gallery visit to examine works at first hand.

Class Hour: 3-4pm Monday, 10-11am Wednesday and either 10am or 12noon Thursday

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4157 The Age of Vermeer: Dutch Genre Painting in the Seventeenth Century

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module offers an in-depth exploration of the nature and interpretation of seventeenth-century Dutch genre painting by such artists as Vermeer, Steen, De Hooch and Metsu. Alongside the social, cultural and historical context, we shall address different art-historical methodologies and approaches such as the study of meaning, realism, ideology, national identity, patronage, display, reception and the art market. We shall assess the emblematic/iconological approaches and the reactions against this method of interpretation; the aspects of realism, optics and the descriptive nature of Dutch art; and the hyper-realism and aesthetics of the Leiden 'fijnschilders'. Special attention will also be given to genre painting as historical evidence for everyday life, dress, furnishings, sexuality, and social behaviour.

Class Hour: Thursday 11.00 am – 1.00 pm and Friday *either* 10.00 am *or* 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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AH4158 The Portrait through Time

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module explores the concept of portraiture in western art from antiquity to the present day. From representation and physiognomic likeness (mimesis) to the exploration of character. In themed lectures and specific case studies, we shall address the character of the portrait, its diverse functions and display, both public and private. Portraits can express status and power, but also ideals of beauty, virtue and conduct. Apart from self-portraits, portraits are the product of interaction between the artist, sitter, and sometimes the patron as a third party in the process. Artists' visions need to be balanced against clients' expectations and social conventions: consequently, portraits can be conservative, controversial, or unacceptable to the sitter. By comparing forms, functions and conventions over time, as well as such aspects as semiotics and phrenology, students will learn to understand the nature and enduring power of the portrait. This module will include gallery visits to examine works at first hand, as well as an assignment based on personal observations of one of the University's academic portraits.

Class Hour: Thursday 11.00 am – 1.00pm and Friday *either* 10.00 am or 11.00am

Teaching: One 2 hour lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AH4160 The Age of Giotto

Credits: 30 Semester: 1

Description: This module will examine painting and sculpture in central Italy between about 1260 and 1350. The purpose is to introduce the art of the period and the context in which it was produced and to examine the methodologies with which it has been studied. Among the topics covered will be the art of Assisi and the Franciscans, the artistic expression of new forms of spirituality in the later thirteenth century, the iconography and meaning of works by Giotto, Duccio and Simone Martini, the use of art as political propaganda and the methods and techniques employed in making works of art in late mediaeval Italy.

Class Hour: 10.00 am Tuesday and 9.00 am Wednesday and *either* 11.00 am Tuesday *or* 10.00 am Wednesday.

Teaching: Two lectures, one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

School of Biology

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000-level and at least a further 120 credits at 3000- and/or 4000-levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or a M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad. With the permission of the Director of Teaching up to 20 credits per programme may be taken in a module outwith the specified modules in the above Programmes. Entry to the Honours programme is at the discretion of the Director of Teaching, but is automatically granted for students gaining at least grade 11 in two of the prerequisite second year modules. Those who, at their first attempt, earn a minimum aggregate of 35 grade points from 2000-level Biology modules will also be considered for entry. Where there are choices between modules in the programmes that follow, some options may have pre-requisites so that choices may be limited by the Pre-honours modules taken. *The availability of 4000-level modules in the School of Biology will be dependent on sufficient student demand.*

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Behavioural Biology	<p>Single Honours Behavioural Biology Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: at least 60 credits including BL2102 and BL2105.</p> <p>Level 3: 130 credits comprising BL3000, BL3306, BL3307, BL3308, BL3319, BL3320; and two from BL3309, BL3313, BL3315, BL3316, BL3318.</p> <p>Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be four or five from BL3400, BL4232, BL4234, BL4256, BL4258, BL4261, BL4280 - BL4285, BL4290; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>
(B.Sc. Honours): Biochemistry	<p>Single Honours Biochemistry Degree:</p> <p>Level 1: 40 credits comprising passes in BL1001 and BL1201. BL1002 is also recommended for all students considering Honours Programmes in the School of Biology.</p> <p>Level 2: At least 60 credits including BL2101 and BL2104.</p> <p>Level 3: 125 credits comprising BL3301, BL3302, BL3303, BL3310, BL3320; and two from BL3311, BL3312, BL3313.</p> <p>Level 4: BL4200, BL4210 and FOUR other modules, OR BL4201, BL4210 and THREE other modules. Other modules to be chosen will be three or four from BL4211 - BL4216, BL4221, BL4222, BL4230 and BL4273; but may also include ONE of BL4219, BL4220, BL4255, BL4291- BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Biology</p>	<p>Single Honours Biology Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002</p> <p>Level 2: At least 60 credits from 2000-level modules available in the School of Biology</p> <p>Level 3: 120-130 credits including BL3320, and then comprising a free choice of modules as approved by the Degree Controller & Director of Teaching. Students on this programme are expected to study across a wide range of sub-disciplines within Biology. BL3000 is required if BL3308 or BL3309 are taken.</p> <p>Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules; the other modules comprising a free choice (including BL3400) as approved by the Degree Controller and Director of Teaching.</p>
<p>(B.Sc. Honours): Biology and Economics</p>	<p>Biology element Joint Honours Biology and Economics Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: 60 credits including any two 2000-level BL modules with a grade 11 pass in each.</p> <p>Level 3: 65 credits from modules BL3301-BL3320; 20 credits will normally be taken in Semester 1 and 40 credits in Semester 2. BL3320 is compulsory for all students.</p> <p>BL3000 is required if BL3308 or BL3309 are taken.</p> <p>Level 4: 60 credits from any 4000-level BL modules (including BL3400).</p>
<p>(B.Sc. Honours): Biology and Psychology</p>	<p>Biology element Joint Honours Biology and Psychology Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: 60 credits including any two 2000-level BL modules with a grade 11 pass in each.</p> <p>Level 3: 40-65 credits from BL3000 level modules, which must include BL3320, as approved by the Degree Controller.</p> <p>Level 4: At least 45 credits comprising 4000-level BL modules as approved by the Degree Controller.</p> <p>Note: The total Honours credits in Biology and Psychology must equal or exceed 240, and must include a project in either School (PS4050 or BL4200).</p>
<p>(B.Sc. Honours): Biology with German[^] or Spanish[^] [^]also available as 'with Integrated Year Abroad Degrees'</p> <p>Not available to entrants from 2008-09</p>	<p>Biology element of Major Degree with German or Spanish:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: 60 credits from the 2000-level modules available in the School of Biology.</p> <p>Levels 3 & 4: 185 credits from BL modules.</p> <p>BL3320 is compulsory for all students and BL3000 is required if BL3308 or BL3309 are taken.</p> <p>Typically at level 4000: BL4200 and 3 or 4 other 4000-level BL 15 credit modules, OR BL4201 and 2 or 3 other 4000-level BL 15 credit modules. Other modules to be chosen will be from the groups defined for a Single Honours Degree, subject to the permission of the Degree Controller and Director of Teaching.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Biology with French</p>	<p>Biology element of Major Degree with French:</p> <p>Level 1: At least 40 credits comprising passes in BL1001 and BL1201.</p> <p>Level 2: EITHER:</p> <p>60 credits comprising passes at grade 11 or better in two of BL2101, BL2102, BL2104 or BL2105; and 20 credits from SD1001 or ID2003 and ID2004</p> <p>OR</p> <p>90 credits comprising passes in three of BL2101, BL2102, BL2104 or BL2105, at least two of which are at grade 11 or better.</p> <p>Level 3: 95 credits from 3000-level BL modules and 30 credits comprising FR3001 and FR3002. BL3320 is compulsory for all students.</p> <p>Level 4: 90 credits comprising (BL4201 and two modules) OR (BL4200 and three modules and 30 credits comprising FR4105 and FR4106.</p>
<p>(B.Sc. Honours): Biology with French With Integrated Year Abroad</p>	<p>Biology & French elements of Major Degree with French:</p> <p>Level 1: Biology Element: At least 40 credits comprising passes in BL1001 and BL1201.</p> <p>French Element: 40 credits comprising passes in FR1001 and FR1002.</p> <p>Level 2: Biology Element EITHER:</p> <p>60 credits comprising passes at grade 11 or better in two of BL2101, BL2102, BL2104 or BL2105; and 20 credits from SD1001 or ID2003 and ID2004</p> <p>OR</p> <p>90 credits comprising passes in three of BL2101, BL2102, BL2104 or BL2105, at least two of which are at grade 11 or better.</p> <p>French Element: 40 credits comprising a pass in FR2021 and a pass at grade 11 or better in FR2022.</p> <p>Year Abroad: 60 credits comprising FR3101</p> <p>Level 3: 95 credits from 3000-level BL modules and 30 credits comprising FR3001 and FR3002. BL3320 is compulsory for all students.</p> <p>Level 4: 90 credits comprising (BL4201 and two modules) OR (BL4200 and three modules and 30 credits comprising FR4105 and FR4106.</p>
<p>(B.Sc. Honours): Psychology with Biology</p>	<p>Biology element of Minor Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: 60 credits from the 2000-level modules available in the School of Biology.</p> <p>Level 3: Up to 45 credits from 3000-level BL modules as approved by the Degree Controller. These may be taken in year 3 or 4. BL3320 is compulsory for all students.</p> <p>Level 4: At least 45 credits comprising 4000-level BL modules as approved by the Degree Controller.</p> <p>Note: The total Honours credits in Biology and Psychology must equal or exceed 240 and must include a project in either School (PS4050 or BL4200)</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours):</p> <p>Biomolecular Science (note admission to this degree is via the School of Chemistry)</p>	<p>Biomolecular Science (B.Sc. Honours):</p> <p>Level 1: Biology Element: 40 credits including passes in BL1001 and BL1201.</p> <p>Chemistry Element: 20 – 40 credits comprising pass or bypass for CH1001, pass in CH1004 or From 2008-08: 60 credits comprising passes in CH1401, CH1402 and CH1601.</p> <p>Level 2: 120 credits comprising passes at 11 or better in BL2101, BL2104, CH2501 and CH2601.</p> <p>Level 3: 125 credits comprising Biology Element: BL3301, BL3320 and two of (BL3302, BL3310, BL3312) Chemistry Element: CH3611, CH3612, CH3613, CH3621, CH3432, CH3716.</p> <p>Level 4: 120 credits comprising:</p> <p>Biology element: BL4210 and THREE modules chosen from (BL4211- BL4216, BL4221 and BL4230)#.</p> <p>Chemistry element: CH4442 and TWO other modules chosen from CH4611, CH4612, CH4613, CH5611, CH5612, CH5613, CH5614, CH5616.</p> <p>(By special arrangement only, BL4201 may be taken instead of CH4442; but modules chosen from # must then be eliminated and five 10 credit CH modules taken.)</p> <p>Chemistry: Direct entry into Level 2 is possible, in which case 120 advanced standing credits at Level 1 are given.</p> <p>In the case of students who spend part of the Honours Programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(B.Sc. Honours):</p> <p>Cell Biology</p>	<p>Single Honours Cell Biology Degree:</p> <p>Level 1: 40 credits comprising passes in BL1001 and BL1201.</p> <p>Level 2: at least 60 credits including BL2101 and BL2104.</p> <p>Level 3: 125 credits comprising BL3301, BL3302, BL3303, BL3320; and three from BL3310, BL3311, BL3312, BL3313, BL3315.</p> <p>Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be four or five from BL4210*, BL4211 - BL4221, BL4230 - BL4234, BL4273; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p> <p>*BL4210 should normally be taken by any student whose project supervisor is in the Biomedical Sciences Research Complex (BRSC).</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Ecology & Conservation</p>	<p>Single Honours Ecology & Conservation Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002 (BL1002 is recommended).</p> <p>Level 2: at least 60 credits including BL2103 and BL2105.</p> <p>Level 3: 130 credits including BL3000, BL3306, BL3307, BL3308, BL3309, BL3320; and two from BL3316, BL3318, BL3319.</p> <p>Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be four or five from BL3400, BL4219 -BL4220, BL4249, BL4257 - BL4261, BL4265 - BL4270, BL4272 -BL4273, BL4282, BL4285; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>
<p>(B.Sc. Honours): Environmental Biology & Geography</p>	<p>Environmental Biology element of Geography Joint Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: 60 credits including BL2102 or BL2103; and BL2105.</p> <p>Level 3: 60-70 credits comprising any three of BL3306, BL3307, BL3308, BL3309, BL3316, BL3318, BL3319, BL3320.</p> <p>BL3320 is compulsory for all students.</p> <p>BL3000 is also required if BL3308 or BL3309 are taken.</p> <p>Level 4: Any four modules from BL3400, BL4219, BL4220, BL4260, BL4265 - BL4276; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>
<p>(B.Sc. Honours): Environmental Biology & Environmental Geoscience or Geoscience</p>	<p>Environmental Biology of Geoscience Joint Degrees:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: 60 credits including (BL2102 or BL2103); and BL2105</p> <p>Level 3: 45-85 credits taken from BL3000, BL3306, BL3307, BL3308, BL3309, BL3316, BL3318, BL3319, BL3320. BL3320 is compulsory for all students.</p> <p>Level 4: 45-75 credits taken from BL3400, BL4219, BL4220, BL4260, BL4261, BL4265 - BL4276; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p> <p>Modules from Levels 3 and 4 should give a total of 240 credits comprising 105-135 from each School.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Evolutionary Biology (for those entering the programme in 2009-10 or subsequently)</p>	<p>Single Honours Evolutionary Biology Degree: Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002. Level 2: At least 60 credits including BL2103 and BL2105. Level 3: 120-130 credits comprising BL3307 and BL3320; and five from BL3302, BL3306, BL3308, BL3309, BL3313, BL3315, BL3316, BL3318, BL3319. BL3000 is also required if BL3308 or BL3309 are taken. Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be four or five from BL3400, BL4219, BL4272 - BL4276, BL4280, BL4282, BL4284, BL4292; but may also include ONE of BL4291, BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>
<p>(B.Sc. Honours): Human Biology (Not available to entrants after 2007-08) (these requirements have been amended for 2009-10 - students entering the programme before this time should consult the entry above or previous Catalogues)</p>	<p>Single Honours Human Biology Degree: Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002. Level 2: At least 60 credits including BL2101 and BL2106. Level 3: 125 credits from BL3301, BL3302, BL3303, BL3306, BL3310, BL3311, BL3312, BL3313, BL3315, BL3319, BL3320. BL3320 is compulsory for all students. Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be two or three from BL4210*, BL4217, BL4230 - BL4234, BL4238, BL4243 - BL4248, BL4259, BL4280; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching. *BL4210 should normally be taken by any whose project supervisor is in the Biomedical Sciences Research Complex (BRSC).</p>
<p>(B.Sc. Honours): Marine Biology</p>	<p>Single Honours Marine Biology Degree: Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002. Level 2: 120 credits from 2000-level Biology modules which must include BL2102 and BL2105. Level 3: 130 credits comprising BL3000, BL3306, BL3308, BL3318 and BL3320; and three from BL3307, BL3309, BL3313, BL3315, BL3316, BL3319. Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be at least THREE from BL4249 - BL4261, but may also include ONE from BL4247, BL4248, BL4265 - BL4269, BL4273 -BL4274, BL4290, and ONE from BL4291- BL4293, ID4001. One 4000-level BL module not specified here, or BL3400, may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Molecular Biology</p>	<p>Single Honours Molecular Biology Degree:</p> <p>Level 1: 40 credits including passes in BL1001 and BL1201. BL1002 is also recommended for all students considering Honours Programmes in the School of Biology.</p> <p>Level 2: At least 60 credits including BL2101 and BL2104.</p> <p>Level 3: 125 credits comprising BL3301, BL3302, BL3303, BL3310, BL3311 and BL3320; and either BL3312 or BL3315.</p> <p>Level 4: BL4200, BL4210 and FOUR other modules, OR BL4201, BL4210 and THREE other modules. Other modules to be chosen will be three or four from BL4211 - BL4216, BL4221 and BL4230; but may also include ONE of BL4219, BL4220, BL4255, BL4273, BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>
<p>(B.Sc. Honours): Neuroscience (these requirements have been amended for 2009-10 - students entering the programme before this time should consult the entry above or previous Catalogues)</p>	<p>Single Honours Neuroscience Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002, and 40 credits comprising passes in PS1001 and PS1002. BL1002 is a recommended option to allow transfer to other Biology degrees.</p> <p>Level 2: 60 credits including BL2101 and at least one of BL2104 or BL2106, and 60 credits comprising passes in PS2001 and PS2002.</p> <p>Level 3: 45 credits from Biology modules comprising BL3303, BL3313 and BL3320 and 40 credits from Psychology modules comprising PS3035, PS3032 and, normally, PS3037 and PS3038. Modules not to exceed 125 credits for the whole year to be chosen from relevant Biology and Psychology modules.</p> <p>Level 4: BL4200 or BL4201 or PS4050. Up to 90 credits from relevant Biology and Psychology modules, that may include only one of BL4291 - BL4293 and ID4001. Students taking BL4200 will not be permitted to take PS4060.</p>
<p>(B.Sc. Honours): Physiology (Not available to entrants after 2007-08)</p>	<p>Single Honours Physiology Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002</p> <p>Level 2: At least 60 credits including BL2101 and BL2106</p> <p>Level 3: 125 credits from BL3301, BL3302, BL3303, BL3306, BL3310, BL3311, BL3312, BL3313, BL3315, BL3318, BL3319, BL3320. BL3320 is compulsory for all students.</p> <p>Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules will be chosen from BL4210*, BL4230 - BL4234, BL4243 - BL4248, BL4250, BL4273; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p> <p>*BL4210 should normally be taken by any student whose project supervisor is in the Centre for Biomolecular Science.</p>

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Zoology	<p>Single Honours Zoology Degree:</p> <p>Level 1: At least 40 credits comprising passes in BL1201 and either BL1001 or BL1002.</p> <p>Level 2: At least 60 credits including BL2102 and BL2106.</p> <p>Level 3: 120-130 credits comprising passes in at least THREE of BL3306, BL3307, BL3313, BL3315, BL3316 or BL3319, BL3320. BL3320 is compulsory for all students.</p> <p>BL3000 is also required if BL3308 or BL3309 are taken.</p> <p>Level 4: BL4200 and FIVE other modules, OR BL4201 and FOUR other modules. Other modules to be chosen will be four or five from BL3400, BL4231 - BL4234, BL4247, BL4249, BL4250, BL4256 - BL4259, BL4261, BL4266 - BL4269, BL4273 - BL4276, BL4280 - BL4282, BL4284, BL4285, BL4286, and BL4290; but may also include ONE of BL4291 - BL4293, ID4001. One 4000-level BL module not specified here may be taken as an alternative, with the permission of the Degree Controller and Director of Teaching.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000 modules and non-graduating students wishing to enter 3000 or 4000 level modules must consult with the relevant Honours Adviser within the School before making their selection.

InterDisciplinary (ID) Modules

This School contributes to the following InterDisciplinary modules **ID4001 Communication and Teaching in Science (Section 23)**

Biology (BL) Modules

BL3000 Field Course

Credits: 5 Semester: summer vacation

Co-requisite: BL3308 or BL3309

Description: This module involves field-based exercises in a range of aquatic and/or terrestrial habitats. Students will examine and measure biodiversity, ecophysiological adaptation, and community structure, with both plant and animal material. Class exercises are used to develop good sampling techniques and to generate and analyse large data sets. Students also work in small project groups to develop individual skills in experimental design, practical manipulations, time-management and personal initiative, and in verbal/written presentation of project results.

Class Hour: One week residential course

Assessment: Continuous Assessment =100%

BL3301 Protein Structure & Function

Credits: 20 Semester: 1

Prerequisite: Normally BL1201 and BL2101 or BL2104

Description: This module builds on the material covered in BL1201 and BL2104 to provide an understanding of more advanced aspects of protein structure and enzymology. The module begins by considering the protein folding problem. The energetics of protein folding and the dependence of structure on sequence are examined. Protein folding diseases like spongiform encephalopathies are used as examples to highlight the significance of protein folding. The molecular basis of prion diseases is discussed in detail. The second part of the module focuses on the mechanisms of enzymes. This in turn leads into the phenomena of allosteric regulation, signalling cascades and transporter systems and is followed by a consideration of enzymes as pharmacological targets. The third part of the module introduces the major techniques for protein structure determination that are at the heart of modern biochemistry, molecular biology and drug discovery. Strategies for obtaining three-dimensional images of macromolecules by electron microscopy, X-ray crystallography and nuclear magnetic resonance are discussed. The laboratory course associated with this module introduces the fundamentals of safe laboratory practice. It provides grounding in the basic laboratory techniques, including associated calculations, as well as those associated with the study of proteins and enzymes..

Class Hour: Lectures: 10.00 am Monday, Wednesday and Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3302 Gene Regulation

Credits: 20 Semester: 1

Prerequisites: Normally BL1201 and BL2104

Description: This module builds on material covered in BL1201 Molecular Biology and BL2104 Biochemistry & Molecular Biology. It first considers the structure of genes and the composition of genomes and then examines genetic activity in eukaryotes in relation to nuclear organization, chromatin structure and epigenetic mechanisms. Regulation of expression at the levels of gene transcription, RNA processing, RNA stability and translation are next covered in detail, drawing particular attention to the nature of protein-nucleic acid interactions. Specific control mechanisms in different prokaryotic and eukaryotic systems, induced by environmental, cell cycle, metabolic and developmental signals, are highlighted.

Class Hour: Lectures: 12.00 noon Monday, Wednesday, Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3303 Membranes & Cell Communication

Credits: 20 Semester: 1

Prerequisites: Normally BL2101

Description: This module deals with the structural and functional organisation of biological membranes. The dynamic molecular components of biological membranes are studied by investigating the mechanisms involved in the control of membrane fluidity, and the biogenesis of new molecular components of the membrane. The central role that biological membranes play in the regulation of the movement of molecules between different extracellular, intracellular and transcellular compartments is also considered. The process of molecular transport is studied at both a theoretical and practical level. The interaction between the structural and functional organisation of the cell membrane is highlighted by studying the specialisation seen in the major transporting epithelial tissues. Topics covered include: (i) structural and kinetic analysis of ligand-receptor interactions; (ii) GTP-binding proteins and the generation of intracellular second messengers: cyclic AMP, cyclic GMP, diacyl glycerol and inositol triphosphate; (iii) the activation of receptor and intracellular protein kinases: serine/threonine and tyrosine kinases; (iv) desensitisation of signal responses and receptor 'cross-talk'; (v) direct and indirect activation of plasma membrane ion channels. The practical component includes experiments to illustrate methods used to elucidate signalling pathways as well as providing training in laboratory and transferable skills.

Class Hour: Lectures: 9.00 am Monday, Wednesday and Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

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BL3306 Environmental Physiology

Credits: 20 Semester: 1

Description: This module deals with how physiological processes allow organisms to cope with variations in particular aspects of their external environments. A central feature of the course will be an exploration of the responses of organisms (animals in particular, with some comparative studies of plants) to variation in temperature, water availability and osmotic stress, nutrient levels, light, and pressure, both at the molecular and whole organism level, and covering a range of animals from marine, freshwater, terrestrial and parasitic habitats. There will also be analyses of seasonally induced physiological responses, including reproduction, food intake and fattening, torpor and hibernation, including analysis of the mechanisms involved in monitoring and responding to changing conditions.

Class Hour: Lectures: 12.00 noon Tuesday and Thursday and, 11.00 am Wednesday every week.
Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3307 Evolution

Credits: 20 Semester: 1

Description: Topics in this module will include: molecular variation and evolution, including phylogeny reconstruction; the evolution and maintenance of sex; the genetics of continuous traits, and the relative importance of continuous and discontinuous variation in evolution; evolution of population genetic structure; the genetics of speciation, covering the evolution of pre- and post-zygotic isolation, and parapatric, sympatric and island speciation. Practical will involve computer simulations to investigate a range of evolutionary phenomena, plus use of molecular markers to examine population structure and speciation.

Class Hour: Lectures: 9.00 am Tuesday and Thursday, 11.00 am Friday every week. Practical: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3308 Aquatic Ecology

Credits: 20 Semester: 1

Co-requisite: BL3000

Description: This module introduces the ecology of aquatic systems beginning with a description of the problems of life in a fluid medium. The module then considers the contrasting conditions that are inherent in freshwater, estuarine and marine systems. The influence of global climate variation and the close coupling between land and sea will be emphasised. Case studies will then be used to introduce the ecology of a variety of aquatic systems including tropical, temperate and polar systems.

Class Hour: Lectures: 11.00 am Monday, Tuesday and Thursday every week. Practical: to be arranged.

Teaching: 40-50 hours, including up to 35 hours lectures and seminars, and practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3309 Ecosystems and Conservation

Credits: 20 Semester: 2

Prerequisites: Normally BL2105 or SD2001

Co-requisite: BL3000

Description: This module will examine how ecosystems function and how they provide services for humans: information which is essential for ecologists, conservationists and land managers. The module will consider examples of natural systems being altered by man to demonstrate how ecosystems function and the consequences of anthropogenic change. Disturbance and regulation in ecosystems, atmospheric and hydrological regulation, (including the green house effect and acidification), soil ecology, conservation and management of natural resources, agricultural and grazed ecosystems (including GMOs), urban ecosystems and aspects of sustainable development will also be discussed.

Class Hour: Lectures: 12.00 noon Monday, Wednesday and Thursday every week. Practical: to be arranged.

Teaching: 40-50 hours, including up to 35 hours lectures and seminars, and practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3310 Metabolism and Bioenergetics

Credits: 20 Semester: 2

Prerequisites: Normally BL2104

Description: Energy transduction, the conversion of one form of energy into another by a biochemical process, is at the centre of all life. The syllabus includes a review of human metabolism and its integration throughout different tissues using as a model the metabolic adaptations associated with starvation. Student-led seminars will tackle topics such as the regulation of food intake (satiety) and apoptosis. The biological systems for harvesting light energy and for conserving chemical energy from food to produce ATP are considered in detail along with chemiosmotic theory and principles. The module also covers the energy requirements of transport and motor processes and the effects on the cell of the failure of energy generation. Practical classes will introduce the student to the methods used in bioenergetics.

Class Hour: Lectures: 11.00 am Monday, Tuesday and Thursday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3311 Infection & Disease

Credits: 20 Semester: 2

Prerequisites: Normally BL2101 and BL2104

Description: This module has lectures in three component areas: parasite infections, viral disease, and pathogenicity of common bacterial infections, and will include consideration of host defences and effective treatment. In all three component areas the emphasis will be on understanding at the molecular level.

Class Hour: Lectures: 9.00 am Tuesday and Thursday and 11.00 am Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3312 Pharmacology

Credits: 20 Semester: 2

Prerequisites: BL2101

Description: This module assumes that students are familiar with the material covered in BL2002 and BL2006. The basic principles of pharmacology will be covered, including evidence to support the modern concept that drugs act via specific receptors present on target tissues and an explanation of our present understanding of laws governing drug-receptor interactions. The concept of agonists, competitive and non-competitive antagonists and the interactions between such classes of drugs will be discussed. The effects of drugs upon the peripheral and central nervous systems and the cardio-vascular system will be covered. How these drugs can be used to understand the function of these systems and to correct their malfunctioning in various disease states will be explained.

The practical component will cover the principles of drug action and receptor theory and illustrate the use of bioassays in pharmacological investigations. The practicals aim to help students build a working knowledge of drug names and actions as well as pharmacological concepts.

Class Hour: Lectures: 12.00 noon Monday, Wednesday and Thursday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

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BL3313 Neuroscience

Credits: 20 Semester: 2

Prerequisites: BL2101

Description: This module covers biochemical, cellular and behavioural aspects of the nervous system. It starts with the basic biochemistry of neural membrane proteins such as receptors and channels, and considers the cellular mechanisms of action potential generation and propagation, and synaptic transmission. The physiology of sensory perception is illustrated by examining the visual system, while motor control is considered in terms of vertebrate locomotion. Selected aspects of learning and memory processes are examined from simple invertebrate systems through to the higher primates. Students are given extensive hands-on experience of computer simulation as a learning tool in this course. The associated practical work illustrates the lecture course through experiments on the nerve impulse, sensory processes, and the biochemistry of synaptic transmission.

Class Hour: Lectures: 9.00 am Monday, Wednesday and Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3315 Developmental Biology

Credits: 20 Semester: 2

Description: This module considers the enigma of development, how complexity arises from apparent simplicity when an adult develops from an egg. It examines development from fertilisation to maturity in a range of organisms, but concentrates on higher vertebrates including man, and the fruitfly *Drosophila*. Early-acting mechanisms for generating differences between initially identical cell populations to produce patterning and structure in embryos will be considered. The development of the nervous system will be examined in depth. *Drosophila* embryonic development and the hormonal control of metamorphosis in flies and amphibians will also be studied.

Class Hour: Lectures: 10.00 am Monday, Wednesday and Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3316 Animal Plant Interactions

Credits: 20 Semester: 2

Description: This module concerns the coevolution of plants and animals, including the ecological, behavioural and physiological aspects of their interactions. Pollination biology and the constraints on participating plants and animals are dealt with in depth, including applied aspects of crop pollination, and this is followed by a review of seed dispersal. Then patterns of herbivory by insects, vertebrates and other animals are considered, illustrating the interactions of plant physical and chemical defences and herbivores' reciprocal adaptations from feeding specializations and host plant selection through to detoxification systems and life history adaptations. Interactions with third parties are also explained, especially plant-fungus-insect systems. There is an introduction to other tritrophic interactions (whereby plants can recruit herbivores' enemies as part of their defences, or recruit ants as biotic plant guards), to insects as plant pests, and to integrated and sustainable approaches to control measures and plant protection.

Class Hour: Lectures: 9.00 am Monday, Wednesday and Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3318 Biology of Marine Organisms

Credits: 20 Semester: 2

Prerequisites: Normally BL2102 and BL2105,

Description: This module will include lectures on the range of microbial and metazoan organisms and ecological systems in the marine environment. The coverage will range from bacteria, to algae, invertebrates and vertebrates (fish, birds, reptiles and mammals). The biology of marine organisms is considered in the context of both adaptations at the level of the individual and its expression in terms of large-scale latitudinal and depth-related variations in productivity and food web structure. Examples from the poles to the tropics and from shallow water to the deep ocean will be included. Practicals will be field- and laboratory-based and will provide an experimental introduction to both ecological and physiological problems in marine biology.

Class Hour: Lectures: 12.00 noon Tuesday, 11.00 am Wednesday and Friday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3319 Animal Behaviour

Credits: 20 Semester: 2

Description: This module is designed to provide a broad and multifaceted perspective on animal behaviour. Nobel-Prize-winning ethologist, Niko Tinbergen, pointed out that to understand behaviour fully researchers had to answer four types of questions, about its causation, function, development and evolution. All four areas are covered in the course, which includes lectures on the genetic, neural, physiological and experiential (i.e. learning) influences on behaviour; behavioural development; foraging; sexual behaviour, sexual selection and mate choice; communication, cooperation and culture.

Class Hour: Lectures: 11.00 am Monday, Tuesday and Thursday every week. Practicals: to be arranged.

Teaching: 40-50 contact hours, including up to 35 hours of lectures and seminars, plus practicals.

Assessment: Continuous Assessment = 34%, 3 Hour Examination = 66%

BL3400 Tropical Research and Field Study

Credits: 20 Semester: 2

Description: The module allows the students to study at terrestrial and marine environments for a minimum of four weeks during the summer. Students will gain experience in researching a variety of habitats and investigate the species in locations such as Indonesia, Honduras, South Africa and Mozambique. Students will be introduced to tropical ecology, sustainable development and conservation, fieldwork and novel research methods under the supervision of experts in those research areas. Students will be expected to maintain a journal of their field studies, in addition to being assessed on the application of field techniques and knowledge. The module will culminate in the production of a detailed research proposal.

Class Hour: Lectures, Practicals and occasional seminars.

Teaching: Four weeks in field locations.

Assessment: Continuous Assessment = 100%

BL4200 Literature-based Research Project

Credits: 45 Semester: Whole Year

Description: This project will involve an extensive literature review to investigate a defined hypothesis or problem within the field of biology, appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, and the production of a high-quality dissertation that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff who will guide and advise them in research activities throughout the academic year. The project will be written up in the form of a research dissertation, and presented in the form of an academic poster and an oral presentation.

Assessment: Continuous Assessment = 100%

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BL4201 Experimental Research Project

Credits: 60 Semester: Whole Year

Description: This project will involve extensive laboratory or field research to investigate a defined problem within biology, appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Biology who will guide and advise them in research activities throughout the academic year.

Assessment: Continuous Assessment = 100%

BL4210 Practical Skills for Molecular Biology & Biochemistry

Credits: 15 Semester: 1

Description: Practical skills are the core of research in biochemistry and molecular biology. This module is designed to prepare students for laboratory research projects in internationally competitive research. The module is designed to foster skills such as experimental design, core practical skills, data analysis and excellent record keeping. Each practical requires some prior theoretical familiarity. Emphasis is placed upon experimental design - notably anticipation of experimental outcomes and the choice of appropriate experimental controls. This planning phase is followed by execution of the experiment and analyses of the data.

Class Hour: To be arranged.

Teaching: Seminars and practicals

Assessment: Continuous Assessment = 100%

BL4211 Antimicrobials - Mode of Action and Resistance

Credits: 15 Semester: 1

Prerequisite: BL3311

Description: This module will commence by establishing the fundamental basis of antimicrobial efficacy in terms of selective toxicity, with a brief history of antimicrobials and factors that make the ideal antimicrobial. This will be followed by study of the known inhibitory action of antibacterial and antifungal drugs at the molecular level, and study of the molecular basis of microbial resistance to these drugs. Lastly, potential new sources of antimicrobials will be considered, particularly antimicrobial peptides and 'natural' antimicrobials.

Class Hour: To be arranged.

Teaching: Introductory lecture followed by two seminars every week.

Assessment: Continuous Assessment = 100%

BL4212 Flavoproteins and Other Redox Enzymes

Credits: 15 Semester: 1

Prerequisite: BL3301

Description: Flavoproteins come in a range of shades of yellow from almost green to almost red. They catalyze a wide variety of chemical reactions involving one- or two-electron transfers. Examples include succinate dehydrogenase in the mitochondrial respiratory chain, P450-reductases in detoxification, metabolic enzymes in fat, protein and carbohydrate metabolism, and many ferredoxins and flavocytochromes in all forms of life. This module will study how the structures and molecular functions of selected examples enable the biological roles. The module will also explore, at a molecular level, the reactions of other redox systems, including the structure and function of light-harvesting complexes, the reaction centre complexes, and the other components of the electron transfer system in chloroplasts. It will develop deductive skills, literature research, and communication of specific knowledge from reviews and primary research articles, and will encourage integration of previous basic knowledge of bioenergetics, protein structure and function, gene expression and metabolic regulation into the exploration of the cellular roles of redox enzymes.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4213 Molecular Virology

Credits: 15 Semester: 1

Prerequisite: BL3311

Description: Viruses as a group include many important human and veterinary pathogens such as influenza virus, hepatitis C virus, foot and mouth disease virus as well as emerging viruses like Ebola virus, and remain a continuing threat to human and animal welfare. This module will consist of a mixture of lectures, tutorials and personal-based learning on aspects of RNA virus host interactions. The topics covered will include comparison of the molecular mechanisms employed by enveloped and non-enveloped viruses to enter and exit from cells, discussion of how small RNA viruses maximize their coding capacity, comparison of the replication of positive and negative strand RNA viruses, discussion of how selected viruses reprogram the host cell to ensure their own replication, description of how RNA viruses intercede with innate immune responses, and understanding of how selected viruses interact with their vectors. In addition, discussion of virus-related topics that have made headline news in recent years will be addressed, and an understanding of the more commonly used molecular techniques to study viruses will be expected.

Class Hour: To be arranged.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 100%

BL4215 Bacterial Virulence Factors

Credits: 15 Semester: 1

Prerequisite: BL3301

Description: In order to establish an infection in a host, pathogenic bacteria rely on mechanisms to adhere to host tissue, gain entry into cells, escape the host's immune response and spread and survive within or on the host. These processes are mediated by bacterial virulence factors, i.e. proteins and other bacterial products that utilise and subvert diverse host cellular processes for the benefit of the pathogen. In this module students will explore how structural biology has led to significant breakthroughs in understanding the molecular bases of some important bacterial infections.

Class Hour: To be arranged.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 100%

BL4216 Structure-based Drug Discovery

Credits: 15 Semester: 1

Description: The process of developing a new drug from conception to the clinic takes on average 15 years and costs over \$800M. There are now many examples of drugs developed based on a knowledge of the three dimensional structure of the target, and all major pharmaceutical companies have structural biology as part of their core drug discovery programmes. Many drugs currently used to combat AIDS were developed from a detailed knowledge of key HIV proteins, as were the two drugs used for influenza. Most major pharmaceutical companies are targeting kinases in the search for new cancer therapies, with international efforts focusing on producing structural details of huge numbers of human kinases.

This module will examine case studies of drugs that have been developed with the aid of structure-based methods.

Class Hour: To be arranged.

Teaching: Seminars, essay, and student presentations in teams representing imaginary drug companies.

Assessment: Continuous Assessment = 100%

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BL4219 Biocontrol: Microbes as Agents of Biological Control of Pests

Credits: 15 Semester: 1

Description: Biocontrol is attracting interest as a possible replacement for chemical control of pests; a natural enemy such as a predator or parasite of the organism to be controlled is searched for from the wild and then developed as a control system. Microbes have wide and varied interactions with most organisms including pests, and provide a pool of candidates for biocontrol measures. The microbial biocontrol agent is grown in large amounts in an industrial laboratory and tested rigorously against the target pest, as well as on a range of other organisms to determine host range and to estimate the potential impact on the environment.

This module will explore the possible use of microbes in the biological control of pests to replace harmful chemicals – the success stories, the failures, the shortcomings. In addition the future of biocontrol will be discussed.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4220 Geomicrobiology - from Gold Mines to Global Warming, how Microbes Influence our Planet

Credits: 15 Semester: 1

Description: Geomicrobiology explores the interactions between microbes and materials within inorganic environments and investigates the effects of microbial activity on these substances. Throughout the Earth's history, microbes have successfully colonised numerous and different inorganic environments, and in the process have changed the chemical nature of geological materials therein. The current interest in geomicrobiology has been reawakened by climate change and environmental issues.

The module will commence by investigating very early Earth and its initial colonisers 3.7 BYA - the sulphate-reducing and methane-producing anaerobic bacteria - and later development of the aerobic environment. Then issues concerning today's Earth and the consequences of geomicrobial cycling are investigated, as well tomorrow's Earth and the influence of microbial activity on global climate change. What are the future implications of geomicrobiological activity? Finally, hypotheses regarding the geomicrobiology of a variety of newly explored space environments are considered.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4221 Conus Venom Peptides: Receptor and Ion Channel Targets, and Drug Design

Credits: 15 Semester: 1

Prerequisites: BL3303, BL3313

Description: Neurotoxins have highly specific actions on molecular targets, and many have been adapted for use as therapeutic, diagnostic and insecticidal agents, and as tools that reveal physiological, cellular and molecular mechanisms underlying brain function.

Amongst the predatory cone snails (*Conus*) each is a specialist in neuropharmacology, using venom to capture prey, to escape from and defend against predators, and possibly to deter competitors. Most conotoxins are small, structurally-constrained, disulphide-rich peptides. The module explores their selective targeting of specific isoforms of receptor or ion channels within a variety of molecular targets, namely, voltage-gated and ligand-gated ion channel subtypes, G protein-linked receptors, and transporter proteins. This module therefore offers a general perspective of *Conus* venoms with special relevance to biochemistry, medicine and neuroscience.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4222 Clinical Biochemistry

Credits: 15 Semester: 1

Prerequisites: BL3310

Description: This module builds on your knowledge of human metabolism and applies it to pathologies. The syllabus includes: discussion of the role of biochemistry in investigating and monitoring human disease, the methods of diagnosing and treating some common diseases. Topics will cover metabolic variability, inborn errors of metabolism, endocrinology, homeostasis, plasma protein metabolism, muscle and hepatic metabolism, drug disposition and metabolism, and defects in glucose and lipid metabolism.

Class Hour: To be arranged.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 100%

BL4230 Molecular Biology and Biochemistry of Neurodegeneration

Credits: 15 Semester: 1

Prerequisite: BL3313

Description: In this module, students will develop a detailed understanding of molecular neuroscience. There will be three main sections. Firstly, how neurons stay alive (eg. neurotrophic factor signalling cascades) is examined; then how neurons can be repaired (e.g. guidance cues, stimulatory & inhibitory factors, death signalling pathways); and thirdly, how the nervous system responds to neurodegenerative diseases, in particular Alzheimer's disease.

Work will focus at the biochemical and molecular level, so that detailed knowledge of signalling pathways including the kinase cascades from the neurotrophic factors and death pathways will be gained.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4231 Neuromodulation

Credits: 15 Semester: 2

Prerequisite: BL3313

Description: Until recently the nervous system was viewed as a black and white world in which neuronal networks carried out tasks using fast chemical synaptic transmission to produce an appropriate network output. However the output of neuronal networks is not fixed but instead is modifiable under different behavioural or developmental circumstances. A major source of flexibility in the output neuronal networks derives from neuromodulation; a process in which the basic operation of the networks remains the same but the strengths of synaptic connections and the integrative electrical properties of neurons in the networks are changed by the actions of a range of neuromodulators. This module explores the diverse range of neuromodulatory mechanisms and outlines their importance in information processing in the nervous system.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

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BL4232 Neural Mechanisms of Predatory and Avoidance Behaviours

Credits: 15 Semester: 1

Prerequisite: BL3313

Description: Predators and their prey are locked in an evolutionary arms race which continuously refines and improves the abilities of predators to locate and capture prey, and of prey to detect and evade predators. This strong selective pressure has produced some spectacular adaptations in both the nervous systems and the overall anatomy of the animals concerned. This, combined with the usually unambiguous motivation of the animals involved in predator-prey interactions (eat or starve, escape or be eaten) has made such adaptations favoured targets for study by neuroscientists, behavioural scientists, and biomechanicists. Students on this module will undertake a series of guided case studies researching the primary literature, and the module will also include some hands-on laboratory work. The aim is both to uncover some general principles of neural and biomechanical organisation, and also to reveal the variety and ingenuity with which evolution has found different solutions to shared problems.

Class Hour: To be arranged.

Teaching: Seminars and occasional practical classes

Assessment: Continuous Assessment = 100%

BL4233 Physiology and Pathology of Human Aging

Credits: 15 Semester: 1

Description: Aging predisposes the individual to pathological conditions including cardiovascular and neurodegenerative diseases. In addition, the physiological changes in nearly every body system can impair function and thus quality of life. The module will cover the pathology of age-related conditions and the physiology of age-related changes in cardiovascular, respiratory, skeletal, nervous, gastrointestinal, and endocrine systems. The module will involve reading primary literature and assembling information for a review essay and for student-led seminars aimed at providing an understanding of the impact of age-related changes and pathologies on health care systems, and on quality of life.

Class Hour: To be arranged.

Teaching: Seminars and one practical class

Assessment: Continuous Assessment = 100%

BL4234 Synaptic Transmission

Credits: 15 Semester: 1

Prerequisites: Normally BL3312 and BL3313

Description: Extensive and versatile communication between nerve cells using special junctions called synapses endows the nervous system with many complex functions like learning and memory. This module will cover important recent progress in understanding the morphology and ultrastructure of synapses, neurotransmitter synthesis, release and clearance mechanisms, synaptic plasticity, the role of glial cells and the development of neurotransmission. Some laboratory work will provide students with hands-on experience of advanced research methods.

Class Hour: To be arranged.

Teaching: Lectures, seminars and two practical classes

Assessment: Continuous Assessment = 100%

BL4238 Systems Physiology

Credits: 15 Semester: 1

Prerequisite: BL2106 and Entry to Physiology or Human Biology Honours programmes.

Description: The module will look in depth at the physiology of mammalian systems, building on knowledge from the comparative systems approach at second year. Introductory seminars on selected systems, chosen from the brain, heart, lung, kidney, muscle, digestive, or endocrine systems, will form the basis for students to explore in depth recent developments in understanding the function and regulation of selected systems in the primary literature. Student-led presentations (based on their reading of primary and secondary literature) will promote discussion and learning on each theme.

Class Hour: To be arranged.

Teaching: Seminars

Assessment: Continuous Assessment = 100%

BL4242 Cellular Aspects of Development

Credits: 15 Semester: 1
Availability: Not available 2009-10
Prerequisite: BL3315

Description: As an organism develops from a single-celled fertilized egg to a complex multicellular being that is capable of interaction with its environment, a plethora of cellular processes are evoked as cells multiply, move around, die and differentiate to take on their functions within the mature organism. This module considers these cellular aspects of animal and plant development concentrating on recent advances in our understanding of such processes. It will be of particular interest to students with an interest in developmental cell biology, but also to those with interests in other areas of biomedical science because many of the cellular pathways activated during development are of importance in a range of diseases including cancer, neurodegenerative conditions and inflammatory disorders.

Class Hour: To be arranged.
Teaching: Two Seminars.
Assessment: Continuous Assessment = 100%

BL4243 The Physiology of Endurance Performance

Credits: 15 Semester: 1

Description: The module is designed to give an understanding of the physiological demands of endurance sports. Exercise in extreme environmental conditions such as heat, cold and at altitude will be studied. The limiting factors in endurance performance will be examined, along with the training strategies used by athletes to achieve their potential. Performance enhancement will include investigation of literature on both the use of illegal substances and legal aids to performance improvement.

Class Hour: To be arranged.
Teaching: Two seminars.
Assessment: Continuous Assessment = 100%

BL4245 Applied Physiology of Sports

Credits: 15 Semester: 2

Description: Analysing the physiological and nutritional demands of sport is an essential requirement to designing successful training programmes and improving player performance. This module will explain techniques of movement analysis to assess the physiological demands and physical attributes required for success of those involved in the selected sports. Fitness tests used to assess the relevant physiological status of players will form part of the practical work of this module and these will be evaluated in relation to the physiological demands of the sport and their practical application. In addition, the principles of training will be investigated and the importance of these in the design and planning of athlete programmes discussed. Relevant nutritional strategies for maximizing training effects, promoting recovery and adaptation, and preventing over-training will be looked at where appropriate. The second part of the practical work will involve the design of a training intervention to improve performance in a specific sport.

Class Hour: To be arranged.
Teaching: Two seminars and occasional practicals.
Assessment: Continuous Assessment = 100%

BL4247 Practical Whole Animal Physiology

Credits: 15 Semester: 2

Description: This is a practical module providing experience in whole animal physiology, using teleost fish as experimental models. There will be 3 introductory lectures on the theory behind the practical components. Then students will do practical mini-projects in small groups, involving measurements of (a) metabolic rate in swimming fish, (b) the energy content of biological materials and (c) osmoregulation and drinking rates. There will be an emphasis on developing quantitative skills in data collection and analysis, and on good experimental design.

Class Hour: To be arranged.
Teaching: Lectures and practicals.
Assessment: Continuous Assessment = 100%

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BL4248 Human Physiology of Diving

Credits: 15 Semester: 1

Description: This module will provide an understanding of diving physics and how pressure changes affect the physiology of the human diver. It will use both tutorials and self-study sessions to cover theoretical topics such as oxygen toxicity, nitrogen narcosis and the symptoms and treatment of decompression illness. Thermal considerations of diving, long term effects and the physiology of technical mixed gas and rebreather diving will also be investigated.

Students will also explore applied topics such as the management of diving casualties and the treatment of diving-associated illnesses. The final emphasis will be on how our understanding of diving physiology directs current practice in the UK on safe diving practices.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 100%

BL4249 Scientific Diving

Credits: 15 Semester: 2

Prerequisite: PADI Advanced Open Water Diver or BSAC Sports Diver (or equivalent)

Description: This module will provide both theoretical and practical experience of the techniques used by scientific divers. The module is restricted to students who have an existing diving qualification (PADI Advanced Open Water Diver or BSAC Sports Diver or equivalent). Lectures prior to the field trip will cover diving safety, dive project planning, management, and risk assessment. Topics will also cover the theory behind underwater surveying techniques, remote sensing techniques and the need for ground truthing.

Abroad, students will receive training in underwater marine identification, construction and deployment of underwater surveys and sampling techniques, gaining practical experience of recording, analysing and interpreting survey data. Then they conduct a mini-research project using suitable survey techniques and present their findings through a report and a presentation.

Class Hour: Full Time 2-3 weeks in March/April

Teaching: Lectures, seminars and practicals.

Assessment: Continuous Assessment = 100%

BL4250 Stress Physiology of Fish

Credits: 15 Semester: 1

Description: This module will define the concept of stress, discuss how stress can be triggered and how it is determined, and discuss the ways fish respond to stressors at the physiological and molecular level. The endocrine component in primary, secondary and tertiary stress responses will be described. A number of different environmental stressors will be considered specifically for salmonid fish, because in aquaculture stress can exert important effects that influence the individual fish and this has implications for fish welfare, husbandry and also profitability of the industry.

Class Hour: To be arranged

Teaching: Weekly 2-hour seminars.

Assessment: Continuous assessment, including a Two Hour open book Examination = 100%

BL4254 Fisheries Research

Credits: 15 Semester: 2

Prerequisite: BL3309

Description: This module will provide an introduction to the utilization of fish stocks in a sustainable way. It will focus on how the status of these stocks can be assessed, the problems associated with determining catch limits, and how advice from fisheries scientists is communicated to managers. There will be a mixture of dedicated lectures (including talks from outside experts), student-led seminars, tutorials and practical computer sessions.

Class Hour: To be arranged

Teaching: Lectures, seminars, tutorials and practicals..

Assessment: Continuous Assessment = 100%

BL4255 Marine Biotechnology

Credits: 15 Semester: 1

Availability: Not available 2009-10

Description: This module will examine the diversity of useful natural products from the sea, consider the ways in which genomic and other approaches are being used to bioprospect for new substances (especially from micro-organisms), learn how genomic approaches are overcoming the problem of unculturability of many marine prokaryotes to find such compounds, and explore some of the more unusual applications of materials derived from marine invertebrates. It will also consider how marine biotechnology is contributing to improved disease control in aquaculture, how it can help the ‘greening’ of more conventional ‘dirty’ industries and may enable us to meet our future energy needs via renewable biofuels. The societal, ethical and environmental issues associated with the development of environmental biotechnology are also considered.

Class Hour: To be arranged

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 100%

BL4256 Marine Acoustics

Credits: 15 Semester: 2

Availability: Not available 2009-10

Description: This module will provide seminar- and practical-based work on both active and passive uses of acoustics in the marine environment. It investigates sound propagation in the ocean, use of sound by man as a sampling tool (*active* acoustic sampling of the water column and seabed), and use of sound by marine mammals for communication and prey detection (as monitored by humans using *passive* listening techniques). It will also examine sound-based conflicts between humans and marine organisms. Two practical sessions will be included, one looking at active use of sound by humans gathering data at sea, the other exploring sound transmission at sea.

Class Hour: To be arranged

Teaching: Seminars and practicals.

Assessment: Continuous Assessment = 100%,

BL4257 Marine Invertebrate Larval Ecology

Credits: 15 Semester: 1

Prerequisite: BL3318

Description: Most marine invertebrates include a planktonic larval stage within their life cycle. The adaptive and ecological significance of a larval stage to otherwise benthic (bottom-dwelling) species is open to numerous interpretations, but for species that are sessile as adults, dispersal and colonization potential appears to be of major significance. This module will focus both on larval growth and development during the planktonic stage and also settlement and metamorphosis to the benthic juvenile state. Successful establishment of the post-larval stage is crucial to the completion of the life cycle and understanding the control of larval settlement has major socio-economic implications for species viewed as being detrimental (e.g. fouling) or beneficial (e.g. mariculture) components of marine ecosystems.

Class Hour: To be arranged

Teaching: Weekly 2-hour seminars. .

Assessment: Continuous Assessment, including a Two Hour open book Examination = 100%

BL4258 Foraging in Marine Mammals

Credits: 15 Semester: 1

Prerequisite: BL3319

Description: This module will provide primarily seminar and practical-based analysis of the life-history requirements of foraging in marine mammals, geographical and physiological constraints on finding food, food and feeding with a focus on types of prey and adaptations by the prey, adaptations for marine mammals feeding in the marine environment, optimal foraging theory, and optimal diving theory. Initial lectures will focus on theoretical issues and description of methods to study foraging. Students will then conduct case-studies of marine-mammal foraging, which will be presented in a seminar format as a group. Some practical work will also be included.

Class Hour: To be arranged

Teaching: Seminars and occasional lectures and practicals

Assessment: Continuous Assessment = 100%

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BL4259 Marine Mammals and Man

Credits: 15 Semester: 2

Prerequisite: BL3318

Description: Marine mammals interact with human activities in a variety of ways and are frequently the focus of more general concerns about the health and exploitation of marine ecosystems. This module explores the impact of these activities on individuals and populations of seals and cetaceans, and *vice versa*. Most marine mammals species are long-lived and slow reproducing and the impacts of unmanaged human activities can be severe; a number of species or populations are threatened as a result. The module explores how best to provide robust scientific advice to inform conservation and management at local, national and international level.

Class Hour: To be arranged

Teaching: Seminars and occasional lectures and practicals

Assessment: Continuous Assessment = 100%

BL4260 Biological Oceanography

Credits: 15 Semester: 2

Prerequisite: BL3318

Description: This module will provide primarily seminar-based instruction on the fundamentals of Biological Oceanography (BO). A few introductory lectures will focus on basic principles in BO and oceanography, including physical and geochemical principles as they apply to biological oceanography. Students will present seminars on particular focus areas within each lecture topic, based upon reading primary literature. BO is a broad field, so the module will provide an overview of the field with depth in a few chosen areas. At least one practical will be offered on the use of remote-sensing data for ocean observation, and we hope to develop a practical of zooplankton sampling. This module should coordinate especially well with marine acoustics and scientific diving.

Class Hour: To be arranged

Teaching: Seminars and occasional lectures and practicals

Assessment: Continuous Assessment = 100%

BL4261 Studying Marine Mammals in the Wild: A field course in Iceland

Credits: 15 Semester: before semester 1

Prerequisite: BL1002, BL3319, and BL3318 which is preferred but not essential

Description: This field course will teach the fundamentals of a suite of field methodologies used in the study of free-ranging cetaceans (whales and dolphins). Students will stay at housing in Husavik, in an integrated field course setting. During week one, students will receive background lectures on the diverse assemblage of dolphins and whales off Husavik, learn the theory and practical use of each of the different cetacean research methodologies. The methods will include: photo-identification, tracking cetaceans at sea, ship-based survey techniques, behavioural observational techniques, vertical-array acoustics using time-delay methods, towed-array acoustics using beamforming, bottom-mounted hydrophone recording, and shore tracking using a surveyor's transit (theodolite). Experts will present research seminars focusing on how the methodologies are used in cutting-edge research. Honours students will focus on understanding the methodologies and what types of science questions could be addressed. Honours students will work alongside Master's level students (MRes) to collect data during fieldwork.

Class Hour: Two weeks, full-time

Teaching: Lectures, seminars and practicals

Assessment: Continuous Assessment = 100%

BL4265 Ecological Modelling

Credits: 15 Semester: 2

Description: This module aims to give a broad overview of the concepts and fundamental achievements of ecological modelling. By the end of the module, students will understand the motivation and structure behind the statement of various models in the literature, have the terminology necessary to converse intelligibly with modellers and biometricians, and know the benefits and limitations of modelling in different areas of ecology. Topics include: basics of modelling methodology, individual-based modelling, population modelling, ecosystem modelling, and spatial modelling. Further grounding in these topics will be provided in computer-based practicals. Although the module is not equation-free, the emphasis is on concepts rather than mathematical technique. Therefore, the material assumes no more than the basic level of numeracy required for entry in a biology programme.

Class Hour: Two hours, approx every other week, for the full duration of the 2nd semester.

Teaching: Over the semester there will be 8 lectures, 6 seminars, 1 practical, tutorials as required..

Assessment: Continuous Assessment = 100%

BL4266 Conservation Research Methods; Estimating Population Size

Credits: 15 Semester: 1

Prerequisite: BL3309

Description: The conservation of animal and plant populations relies initially on information of population sizes and trends. This information can only be collected by fieldwork. This module teaches the basic field techniques that underpin the monitoring of populations. Each week the theory behind a different technique is introduced, then the technique is practiced in the field, and finally data collected by the technique are analysed and discussed in a workshop at the end of the week, so that a full understanding of a technique and its proper application is gained. The module ends with students carrying out a project applying and integrating the techniques they have learnt.

Class Hour: To be arranged

Teaching: 5 one-week practicals involving a lecture, a field practical and an analysis workshop each week.

Assessment: Continuous Assessment = 100%

BL4267 Conservation Research Methods; Sampling Individuals and Communities

Credits: 15 Semester: 2

Prerequisite: BL3309

Description: The conservation of animal and plant populations relies on unbiased information on individuals and communities. This information can only be collected by fieldwork that uses proper sampling methods. This course teaches basic field techniques that underpin unbiased sampling. Each week the theory behind a different technique is introduced, then the technique is taught and practiced in the field and finally data collected by the technique are analysed and discussed in a workshop, so that a full understanding of a technique and its proper application is gained. The module ends with students carrying out a project applying and integrating the techniques they have learnt.

Class Hour: To be arranged.

Teaching: 5 one-week practicals involving a lecture, a field practical and an analysis workshop each week. .

Assessment: Continuous Assessment = 100%

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BL4268 Conservation and Management of Biodiversity

Credits: 15 Semester: 1

Prerequisite: BL3309

Description: This module will focus on the scientific problems associated with the conservation and sustainable use of animals and plants, and on the way in which scientific advice on these issues is provided. Initial lectures will cover sustainable development and the precautionary principle; the causes of extinction; the economics of conservation; management of exploitation; and estimating species richness. After this student-led seminars will cover a range of more specialist issues of current concern. Practical work on population viability analysis, classifying populations using the IUCN criteria, and species richness estimation may be included.

Class Hour: To be arranged.

Teaching: Two seminars per week and occasional lectures and practicals.

Assessment: Continuous Assessment = 100%

BL4269 Icelandic Ecology: Conservation and Sustainable Development

Credits: 15 Semester: 1

Description: Students will visit three sites in Iceland and be introduced to aspects of terrestrial, freshwater and marine issues that are relevant to the status of Icelandic ecology and conservation. After introduction to the issues during the visit to Iceland and with the help of regular structured tutorials, students will select and specialise in a particular area of research.

On return to St Andrews students will research their topic by the selective collation of general information over a broad background. Material relevant to their area of study, including detailed research of historical and present day status of selected area, analysis of current status and critique of future management issues will be presented to the group. This will result in an interactive seminar and a written report. Students will be supported by an individual tutor and regular class seminars.

Class Hour: To be arranged.

Teaching: One week fieldwork in June, then occasional seminars and tutorials in St Andrews.

Assessment: Continuous Assessment = 100%

BL4270 Plant-environment Interactions

Credits: 15 Semester: 2

Description: This module will provide an analysis of the ways in which plants interact with their physical, chemical and biological environments. This is a wide-ranging course which will bring together current knowledge of the physiological and molecular responses of plants within the wider context of how whole organisms and communities respond to the environment. Topics include: parasitism, plant pathogens and diseases, symbioses, plant stress responses, and human influences such as pollution, bioremediation and genetic modification.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4272 Molecular Ecology

Credits: 15 Semester: 1

Description: This module will consider modern molecular approaches that are now extensively used in several key areas of ecology: conservation and population genetics, phylogeography, and ecological genetics; aspects of molecular adaptation; and phylogenetic and genealogical inference.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4273 Bioinformatics for Biologists

Credits: 15 Semester: 1

Availability: Not available 2009-10

Description: This module is about using computers to search and study protein and DNA sequences, and related data such as mRNA expression levels. Vast quantities of such data are publicly available, and, if viewed in the right way, can provide strong evidence concerning function, structure, and evolution of DNA, RNA, proteins and genes. Because of this, computational analysis has become a crucial component of modern biology, including biochemistry, molecular biology, ecology, evolutionary biology and biomedical research. With hundreds of genome sequences and vast quantities of expression data available, the approach has greater potential than ever before. This module will give an overview of the data, software and methods of analysis, and in-depth practical training in applying bioinformatics techniques to questions of biology and biomedical research. Case studies where researchers use genomes to ask questions about divergence, adaptation and speciation will be discussed. The emphasis of the module is not mathematical, but rather concerns data, the general features of methods, use of software, applications relevant to biology, and results. The module will involve use of computers and simple computer programming, for which training will be provided as part of the module.

Class Hour: To be arranged.

Teaching: Lectures, practicals and a seminar.

Assessment: Continuous Assessment = 100%

BL4274 Marine Invertebrates in Evolution and Development

Credits: 15 Semester: 1

Prerequisite: BL3315

Description: Animal life evolved in the sea. Consequently much of what we can learn about the major events in animal evolution can be obtained from studying marine invertebrates. Since evolution of new morphologies involves changes to the development of organisms, the field of evolutionary developmental biology is becoming established as a major and essential component of any comprehensive understanding of evolutionary biology. This module aims to cover some of the main, current themes in evolutionary developmental biology with examples drawn from marine invertebrates.

Class Hour: To be arranged.

Teaching: Two hour seminars.

Assessment: Continuous Assessment = 100%

BL4275 Evolution in Action

Credits: 15 Semester: 1

Description: This module will focus on recent developments relating to evolutionary biology, placing particular emphasis on research related to medical or societal application or public policy. Examples of topics to be covered include: emergent diseases, biodiversity policy, conservation management, biological impacts of climate change, and public understanding of science.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4276 Speciation

Credits: 15 Semester: 1

Prerequisite: BL3307

Description: The module will focus on how species originate. After considering in some detail the thorny issue of defining and delimiting species, an analysis will be made of the process of species formation. This will involve examining species origins in sympatry (i.e. when a new species is formed in the same geographic locality as its progenitor), and in allopatry (when the new species originates in a location geographically removed from that of its progenitor). The analysis will cover the roles of natural selection, sexual selection and drift in bringing about divergence and the evolution of reproductive isolation leading to speciation.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

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BL4280 Evolution and Human Behaviour

Credits: 15 Semester: 1

Description: Evolutionary biologists, anthropologists and psychologists have taken evolutionary principles and used them to explain a range of human characteristics, such as homicide, religion and sex differences in behaviour. Other researchers are sceptical of these interpretations, and critical of the methods. Moreover, researchers disagree as to the best ways to use evolution to explore humanity, and a number of schools of thought have emerged. This module will introduce and critically evaluate the main evolutionary approaches currently being used, including socio-biology, evolutionary psychology, behavioural ecology and gene-culture co-evolution.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4281 Vocal learning in Animals

Credits: 15 Semester: 1

Description: Learning to produce sounds is a particularly interesting subject as far as humans are concerned because it is such a notable feature of our own species. Why do we show it, and how did it evolve? As there is little evidence of it in any other primates we need to look further afield for clues. It is found in several other mammalian orders and in three orders of birds, and the evidence for it and nature of it will be examined in these examples. We will discuss why selection may have favoured it in each case. We will also consider vocal learning in a broader sense, including its use in animals that do not themselves produce sounds.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4282 Biology & Behaviour of Social Insects

Credits: 15 Semester: 2

Description: This module will examine and compare the biology of the four main groups of social insects: termites, ants, wasps and bees. Sociality in other groups (aphids, beetles) will also be considered briefly. Topics will include the evolution of sociality, social organisation and social control systems, reproductive strategies, and diverse communication modes including pheromonal systems, acoustic systems, and 'bee dances'. Aspects of foraging behaviour and learning abilities will also be considered, particularly for ants (leaf cutter ants, army ants, slave-making ants) and for bees both eusocial and semi-social. There will be strong evolutionary, ecological and behavioural themes, and relevance also to conservation issues.

Class Hour: To be arranged.

Teaching: One seminar

Assessment: Continuous Assessment = 100%

BL4284 Breeding Systems

Credits: 15 Semester: 2

Description: Studies of mating systems in animals are primarily concerned with how animal societies are structured in relation to sexual behaviour. In plants, where many organisms do not have separate males and females, the term refers to the degree to which individuals are self-compatible or the amount of out-crossing that occurs. The effects of breeding system on sexual selection and sexual conflict, together with the costs of inbreeding and the evolution of mating systems, are central concerns of this module.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

BL4285 Complex Systems in Animal Behaviour

Credits: 15 Semester: 2

Description: Behaving animals form complex systems, and can create complicated and beautiful phenomena, such as flocks of birds, termite nests, and patterns of army ant swarms. This course will look at research that examines animal behaviour from a complex systems perspective, where analyses range from captive housing of entire bird flocks, computer simulation, and use of robots to interact with the animals. Introductory lectures will be followed by seminar-style discussion of the primary literature, computer practicals, and hands-on practicals where students will identify complex systems in animal behaviour around St Andrews.

Class Hour: To be arranged.

Teaching: Lectures, seminars and practicals

Assessment: Continuous Assessment = 100%

BL4290 Networks in Biology

Credits: 15 Semester: 2

Availability: Not available 2009-10

Description: What do spread of a disease, climate change, visual perception, and development of a sea urchin have in common? They are all involved with or impact biological networks. This module will investigate networks that exist in biological systems across various levels of biological organisation, covering molecular, neural, ecological, and social networks.

The techniques and theory of network analyses will be covered, as well as specific features of networks. Introductory lectures will be followed by seminar-style discussion of the primary literature, and computer-based practicals investigating network behaviour. Students will also participate in and analyse results of a social network experiment.

Class Hour: To be arranged.

Teaching: Lectures, seminars and practicals

Assessment: Continuous Assessment = 100%

BL4291 Science, Museums and the Public

Credits: 15 Semester: 1 & 2 (taught twice)

Description: This module aims to examine how science in general, and natural history in particular, is presented to the public in a variety of locations. The module will commence with an introductory lecture on the history of British museums and collections. Students will then visit various museums and natural history collections in Scotland. At some of these locations Museum staff will talk about their work. After each visit students will illustrate and discuss the displays and compare what they have seen with their local collection, the Bell Pettigrew Museum of Natural History. The second half of the module will focus on producing a display on an aspect of Biology in the two temporary exhibition cases. This can include a powerpoint presentation or film on a DVD player.

Class Hour: To be arranged.

Teaching: Lectures, seminars and practicals

Assessment: Continuous Assessment = 100%

BL4292 History of Genetics and Evolution

Credits: 15 Semester: 2

Description: Over the past century and a half, biology has been dominated by the emergence and rise to prominence of two related fields – genetics and evolution. This module provides the opportunity to examine the development of these two subjects, via the life and work of key figures in these fields, and also to compare the way that biological science worked in the nineteenth century with the way it operates today. The course will start with two lectures on the history of Biology, and students will then read material on the life and times of four key individuals – Darwin, Mendel, Watson and Crick. In each case, both original documents and biographies will be considered, and the materials will then be discussed and compared in tutorials. Other key figures in the field will also be studied, and aberrations such as Francis Galton and eugenics, and T.D. Lysenko and Soviet genetics will be discussed.

Class Hour: To be arranged.

Teaching: Two seminars and occasional lectures.

Assessment: Continuous Assessment = 100%

Biology – Honours 2009/10 – August 2009

BL4293 Bioethics

Credits: 15 Semester: 1

Description: The field of bioethics is rapidly expanding, as scientific discoveries push back boundaries and raise new questions and concerns, not just for the scientists involved, but for society as a whole. This module will begin by introducing the various schools of ethical thought used in considering bioethical dilemmas and will then move on to look at a number of traditional and emerging areas in bioethics, including topics such as research ethics, science in society, start of life/end of life issues, environmental ethics, genethics and neuroethics. Emphasis will be placed on the reading of key primary papers and case studies prior to each class, and informed discussion and debate within the teaching session will be encouraged.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 100%

GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change

Credits: 15 Semester: 2

Prerequisites: GE2011/ GE2012 or GS2011/GS2012 or SD2001 or BL2105. Familiarity with basic chemistry and mathematics is desirable, but not essential.

Description: Terrestrial ecosystems play a central role in modulating the flow of energy and materials in the Earth system, regulating trace gas exchange with the atmosphere, the transfer of carbon and nutrients with rivers and oceans, and the natural attenuation of pollutants. Understanding how terrestrial ecosystems function is crucial to addressing problems such as climate change, stratospheric ozone loss, and environmental pollution. This module will develop principles of ecosystems ecology and biogeochemistry, focusing on major elemental cycles, soil processes, and human activity. In addition to students in Geography and Geosciences, this module also welcomes students from Sustainable Development, Biology and Chemistry.

Class Hour: To be arranged.

Teaching: Two lectures and occasional tutorials.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

Bute Medical School

Important Degree Information:

B.Sc. Honours in Medicine

The general requirements are 480 credits over a period of no more than 4 years from the date of first matriculation; the final two years being an approved Honours programme of 240 credits, of which 120 credits are at 3000 level and 120 credits at 4000 level. Direct entry into level 2000 is the normal route of entry in which case 120 credits of advanced standing will be given by the Faculty Business Committee to approved candidates. All those who graduate B. Sc. (Honours) in Medicine from St Andrews have the **guarantee of a clinical place with our clinical partners, the Universities of Manchester, Glasgow, Edinburgh, Dundee and Aberdeen**, where they can graduate with a MB ChB after three years of clinical studies.

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Medicine	<p>Single Honours Medicine Degree:</p> <p>Direct entry to second year with 120 credits of advanced standing awarded by the Faculty Business Committee to approved candidates.</p> <p>Level 2: 120 credits comprising MD2001 & MD2002</p> <p>Level 3: 120 credits comprising MD3001 & MD3002</p> <p>Level 4: 120 credits comprising MD4001, MD4002 & MD4003</p>

Medicine (MD) Honours Modules

Progression into the Honours programme requires passing modules MD2001 and MD2002 at a specific level of achievement. Normally an average of grade 11 will be required for entry to the Honours programme but exceptions to this will be at the discretion of the Head of School.

MD3001 Medicine Honours 1 (Cardiovascular & Respiratory Systems)

Credits: 60 Semester: 1

Prerequisites: MD2001 & MD2002

Description: Medical Science Honours 1 and 2 form the second turn of the curriculum spiral taking an integrated approach to the scientific basis of medicine at an Honours level. These modules will build upon the material delivered in the preceding Foundations of Medicine modules 1 and 2.

Medicine Honours 1 will:

- ◆ cover the structure and functions of the cardiovascular and respiratory systems. The anatomy of the thorax will be studied by dissection.
- ◆ introduce the disease mechanisms and therapy of disorders pertinent to these body systems
- ◆ use relevant clinical problems and clinical skills to provide clinical context
- ◆ integrate the ethical, moral and behavioural aspects relevant to these systems.

Class Hour: To be arranged.

Teaching: 8 Lectures and 6 hours of Seminars/tutorials/practicals each week.

Assessment: Continuous Assessment = 25%, 2 Examinations of up to 2 hours' duration each and 1 hour Objectively Structured Practical Exam (OSPE) = 75%

Re-Assessment: 2 Examinations of up to 2 hours' duration each and 1 hour Objectively Structured Practical Exam (OSPE) = 100%

Bute Medical School – Honours 2009/10 – August 2009

MD3002 Medicine Honours 2 (Reproductive, Renal & Gastrointestinal Systems)

Credits: 60 Semester: 2

Prerequisites: MD2001 & MD2002

Description: Medicine Honours 2 will:

- ◆ provide in depth coverage of the structure and functions of the reproductive, renal and gastrointestinal systems. The anatomy of the abdomen and pelvis will be studied by dissection.
- ◆ cover the disease mechanisms and therapy of the disorders pertinent to these body systems
- ◆ use relevant clinical problems to provide the clinical context
- ◆ will integrate the ethical, moral and behavioural aspects relevant to these systems.

Class Hour: To be arranged.

Teaching: 8 Lectures and 6 hours of Seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2 week cycle. Up to 6 hours per week of directed self-learning.

Assessment: Continuous Assessment = 25%, 2 Examinations of up to 2 hours' duration each and 1 hour Objectively Structured Practical Exam (OSPE) = 75%

Re-Assessment: 2 Examinations of up to 2 hours' duration each and 1 hour Objectively Structured Practical Exam (OSPE) = 100%

MD4001 Medicine Honours 3 (Central Nervous System & Endocrine System)

Credits: 60 Semester: 1

Prerequisites: MD3001 & MD3002

Description: This module continues the strategy of the spiral curriculum by revisiting foundation knowledge and progressing to the most complex integrative physiological systems namely the central nervous and endocrine systems.

Medicine Honours 3 will:

- ◆ provide in depth coverage of normal structure and function of the CNS and endocrine systems. The anatomy of the head and neck will be studied by dissection
- ◆ introduce diseases and possible therapies pertinent to these important control systems
- ◆ present case studies associated with the CNS and endocrine systems to highlight appropriate clinical skills for the identification of neurological and endocrinological disorders
- ◆ utilise audiovisual, literary and theoretical works to integrate ethical issues and behavioural science with clinical medicine.

Class Hour: To be arranged.

Teaching: 8 Lectures and 6 hours of Seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2 week cycle. Up to 6 hours per week of directed self-learning.

Assessment: Continuous Assessment = 25%, 2 Examinations of up to 2 hours' duration each and 1 hour Objectively Structured Practical Exam (OSPE) = 75%

Re-Assessment: 2 Examinations of up to 2 hours' duration each and 1 hour Objectively Structured Practical Exam (OSPE) = 100%

MD4002 Medicine Honours 4 (Student-selected component)

Credits: 40 Semester: 2

Prerequisite: MD4001

Description: Students will undertake an Honours level Student-Selected Component (SSC) such as a research project or a library project. These SSCs will enable students to pursue an area of their own particular interest at an advanced level. SSCs will involve one of the following:

- ◆ scientific research assessed by dissertation and oral presentation
- ◆ library project assessed by dissertation and oral presentation

Class Hour: To be arranged.

Teaching: To be arranged.

Assessment: Scientific research or library project assessed by dissertation and oral presentation.

Re-Assessment: Re-submission of above assessments.

MD4003 Medicine Honours 5 (Applied Medical Science)

Credits: 20 Semester: 2

Prerequisite: MD4001

Description: Knowledge acquired by the students in the earlier parts of the curriculum will be consolidated. This course is primarily taught by clinicians (including honorary staff) and case studies will be used extensively to direct student learning.

Medicine Honours 5 (Applied Medical Science) will:

- ◆ review clinical anatomy in preparation for clinical training.
- ◆ give students the opportunity to significantly advance their clinical and communication skills in terms of patient examination techniques and associated procedures e.g. venepuncture, intravenous cannulation, bladder catheterisation, rectal digital examination, cardiopulmonary resuscitation, measurement of blood pressure, lumbar puncture.
- ◆ provide opportunities for developing skills relevant to problem based learning

Class Hour: To be arranged.

Teaching: To be arranged.

Assessment: 1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration

Re-Assessment: 1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration

School of Chemistry

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

For the degree of B.Sc. Chemical Sciences (Honours) the approved Honours programme of 240 credits, requires 90 credits at 4000 level and a further 110 credits (minimum) at 3000 and 4000 levels.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

M.Chem. Honours

General requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least a further 210 credits at 3000 and 4000 levels.

M.Sci. Honours

General requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least a further 210 credits at 3000 and 4000 levels.

Other Information: Direct entry into Level 2000 is possible, in which case credit of 120 credits at level 1000 is given on the basis of school examinations. In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Biomolecular Science</p>	<p>Biomolecular Science (B.Sc. Honours):</p> <p>Level 1: Biology Element: 40 credits including passes in BL1001 and BL1201. Chemistry Element: 20 – 40 credits comprising pass or bypass for CH1001, pass in CH1004 or From 2008-08: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: (120 credits including BL2101, BL2104 and CH2101 and CH2103 or From 2008-09: 120 credits comprising passes at grade 11 or better in BL2101, BL2104, CH2501 and CH2601</p> <p>Level 3: 120 credits comprising Biology Element: BL3301 or BL3302, BL3310 and BL3312 Chemistry Element: CH3431, CH3612, CH3613, CH3614, CH3621, CH3716</p> <p>Level 4: 120 credits comprising: Biology element: BL4210 and THREE modules chosen from (BL4211-BL4216, BL4221, BL4230)#. Chemistry element: CH4442 and TWO other modules chosen from CH4611, CH4612, CH4613, CH5611, CH5612, CH5613, CH5614. (By special arrangement only, BL4201 may be taken instead of CH4442; but modules chosen from # must then be eliminated.)</p> <p>Chemistry: Direct entry into Level 2 is possible, in which case 120 advanced standing credits at Level 1 are given.</p> <p>In the case of students who spend part of the Honours Programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Chemical Sciences</p>	<p>Chemical Sciences (B.Sc. Honours Degree): Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60 credits comprising passes at grade 11 or better in CH2101 and CH2102 or CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721</p> <p>Level 4: 120 credits comprising CH4442, 4 from (CH4511, CH4611, CH4612, CH4711), and 4 from (CH4512, CH4613, CH4712, CH4713, CH5513-5, CH5612-4, CH5616, CH5712-4)</p> <p>Other Information: This course is aimed at those who like Chemistry and were good at it at school, who want the varied training that a Chemistry Degree gives, but who do not wish to be professional Chemists. Up to 40 credits from the 3000-level and 4000-level modules listed above can be replaced with modules from other Schools. This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(B.Sc. Honours): Chemistry</p>	<p>Chemistry (B.Sc. Honours): Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 90 credits comprising passes at grade 11 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721.</p> <p>Level 4: 120 credits comprising CH4442, CH4461, 2 from (CH4511, CH4611, CH4711), 2 from (CH4512, CH4613, CH4713), either CH4612 or CH4712, and 2 from (CH5513-5, CH5612-4, CH5616, CH5712-4).</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Chemistry and Geoscience</p>	<p>Chemistry - Geoscience Joint Degree:</p> <p>Level 1: 40 credits comprising Pass or bypass for CH1001, pass in CH1004 and 40 credits comprising passes in GS1001 and GS1002 or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 and 40 credits comprising passes in GS1001 and GS1002</p> <p>Level 2: 60 credits comprising passes at grade 11 or better in CH2101, either CH 2102 or CH2103 or From 2008-09: 60 credits comprising passes at grade 11 or better in CH2501 and either CH2601 or CH2701 and 60 credits comprising passes at grade 11 or better in (GG2003, GG2004, GS2001, and GS2002) or (GS2011 and GS2012)</p> <p>Level 3: 120 credits comprising CH3431, CH3521, CH3717, CH3511, CH3721, CH4512, and GS3004, normally GS3081* and 1 from (GS4083 or GS4084).</p> <p>Level 4: 120 credits comprising 3 from (CH4511, CH4611, CH4711, CH4712 and CH5711), CH4448§, CH5515, normally GS4083 or GS4084**, GS4005, GS4010, GS4009, 1 from (GS4088, GG3067, GG3068, GG3069 and GG3082)</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p> <p>In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p> <p>* With the approval of the Geoscience Adviser of Studies, a student may replace GS3081 and (GS4083 or GS4084) by 2 from GG3067, GG3068, GG3069, GG3082 in semester 2.</p> <p>** With the approval of the Geoscience Adviser of Studies, a student may replace GS4083 or GS4084 by a second module from the list GS4088, GG3067, GG3068, GG3069 and GG3082</p> <p>§With the approval of the Directors of Teaching, under some circumstances, students might conduct an integrated 35 credit project, ID4441, combining CH4448 with GS4009 and presenting a single, extended report.</p>
<p>(B.Sc. Honours): Chemistry and Mathematics</p>	<p>Chemistry element of Joint Honours Degree (B.Sc. Honours):</p> <p>Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60 credits comprising passes at grade 11 or better in CH2101, either CH2102 or CH2103 or From 2008-09: 60 credits comprising passes at grade 11 or better in CH2501 and CH2701</p> <p>Level 3: 60 credits comprising 3 from (CH3431, CH3512, CH3614, CH3621, CH3717, CH3721), 30 credits from (CH3441, CH3511, CH3521, CH3612, CH3712)</p> <p>Level 4: 60 credits comprising CH4442, 1 or 2 from (CH4511, CH4611, CH4612, CH4711), 1 or 2 from (CH4512, CH4613, CH4712, CH4713)</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p> <p>In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Chemistry with Catalysis</p> <p>(this programme is no longer available to entrants from 2009-10)</p>	<p>Chemistry with Catalysis (B.Sc. Honours): Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60-90 credits comprising Passes at grade 11 or better in CH2101 and either or both of CH2102 and CH2103 or From 2008-09 : 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3611, CH3612, CH3621, CH3711, CH3712, CH3721.</p> <p>Level 4: 120 credits comprising CH4442, CH4461, CH5511, CH5713, 2 from (CH4512, CH4613, CH4713), 2 from (CH4511, CH4611, CH4711), either CH4612 or CH4712.</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(B.Sc. Honours): Chemistry with Medicinal Chemistry</p>	<p>Chemistry with Medicinal Chemistry: Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60-90 credits comprising passes at grade 11 or better in CH2101 and either or both of CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601, CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3613, CH3614, CH3621, CH3716, CH3721,</p> <p>Level 4: 120 credits comprising CH4442, CH4462, CH4511, CH4611, CH4612, CH4613, CH5611, 2 from (CH5612-4 and CH5616).</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(B.Sc. Honours): Chemistry with French[^]</p> <p>[^]also available as 'With Integrated Year Abroad Degrees'</p> <p>(SUBJECT TO FINAL APPROVAL)</p>	<p>Chemistry element of Major Degree with French (B.Sc. Honours): Level 1: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 80 credits comprising passes at grade 11 or better in CH2501, CH2603 and CH2701</p> <p>Level 3: 90 credits comprising CH3441 and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)</p> <p>Year Abroad (if WIYA version taken): 60 credits comprising FR3101</p> <p>Level 4: 90 credits comprising CH4442, and 50 credits from (CH4461, CH4511, CH4512, CH4611, CH4613, CH4711, CH4712, CH4713)</p> <p>Other Information: These courses are recognised by the Royal Society of Chemistry (RSC) for professional membership. In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Chemistry with German[^]</p> <p>[^]also available as 'With Integrated Year Abroad Degrees'</p> <p>Not available to entrants from 2008-09</p>	<p>Chemistry element of Major Degree with German (B.Sc. Honours): Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60 credits comprising passes at grade 11 or better in CH2101 and either CH2102 or CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 90 credits comprising CH3441, and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)</p> <p>Level 4: 90 credits comprising CH4442, 5 from (CH4461, CH4511, CH4512, CH4611, CH4613, CH4711, CH4712, CH4713)</p> <p>Other Information: These courses are recognised by the Royal Society of Chemistry (RSC) for professional membership. In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(B.Sc. Honours): Chemistry with Pharmacology</p>	<p>Chemistry with Pharmacology (B.Sc. Honours): Level 1: Chemistry element: 40 credits comprising a pass or bypass for CH1001, pass in CH1004 and 2 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Biology element: 40 credits comprising passes in BL1001 and BL1201</p> <p>Level 2: 120 credits comprising passes at grade 11 or better in BL2101, BL2104, CH2501 and CH2601</p> <p>Level 3: 80 credits comprising CH3431, CH3512, CH3614, CH3621, CH3716, CH3721, 20 credits from (CH3441, CH3511, CH3612, CH3613) and 40 credits from BL3312, BL3313</p> <p>Level 4: 50 credits comprising CH4447, CH4462, and 70 credits from CH4511-2, CH4611-3, CH4711-3, CH5611-4, CH5616</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership. The project (CH4447) will be supervised jointly by staff from Chemistry and Biology.</p>
<p>(B.Sc. Honours): Materials Science</p>	<p>Materials Science (B.Sc. Honours): Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004, CH1005, PH1011, PH1012 and MT1002. Or From 2008-09: 120 credits comprising passes in CH1401, CH1402, CH1602, PH1011, PH1012 and MT1002</p> <p>Level 2: 120 credits comprising passes at grade 11 or better in CH2101, CH2102, CH2104 and either PH2011 or MT2001. Or From 2008-09: 120 credits comprising passes at grade 11 or better in CH2501, CH2602, CH2701 and either PH2011 or MT2001</p> <p>Level 3: 120 credits comprising CH3441, CH3513, CH3712, CH3715, CH3717, CH3722, PH3002, PH3074 and two other 3000-level modules.</p> <p>Level 4: 120 credits comprising CH4442, CH4711, CH4712, CH4452 and a further three 10 credit 4000-level or 5000-level modules.</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership</p>

Degree Programmes	Programme Requirements at:
<p>(M.Chem. Honours): Chemistry (M.Chem.) 5 years</p>	<p>Chemistry (M.Chem.) Degree:</p> <p>Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or</p> <p>From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or</p> <p>From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721.</p> <p>Level 4: 120 credits comprising CH4442, CH4511, CH4512, CH4611, CH4612, CH4613, CH4711, CH4712, CH4713.</p> <p>Level 5: 120 credits comprising CH5461, CH5441, CH5511, CH5611, CH5711, 4 from (CH5513-5, CH5612-4, CH5616, CH5712-4).</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(M.Chem. Honours): Chemistry with External Placement (M.Chem.) 5 years</p>	<p>Chemistry with External Placement (M.Chem.):</p> <p>Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or</p> <p>From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or</p> <p>From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3614, CH3612, CH3621, CH3712, CH3717, CH3721,</p> <p>Level 4: 120 credits comprising CH4441, CH4451.</p> <p>Level 5: 120 credits comprising CH5441, CH5461, CH5511, CH5611, CH5711, 4 from (CH5513-5, CH5612-4, CH5616, CH5712-4).</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(M.Chem. Honours): Chemistry with French (M. Chem.) 5 years</p> <p>Not available to entrants from 2008-09</p>	<p>Chemistry with French (M.Chem. Honours) (5 year degree) : Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or</p> <p>From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 90 credits comprising passes at 15 or better in CH2101 and CH2102 or CH2103 or</p> <p>From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 90 credits comprising CH3441, and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3611, CH3612, CH3621, CH3711, CH3712, CH3721)</p> <p>Level 4: 90 credits from CH4441</p> <p>Level 5: 90 credits comprising CH5441, CH5461 and 40 credits from (CH5511, CH5513-5, CH5611-4, CH5616, CH5711-4).</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(M.Chem. Honours): Chemistry with French (M. Chem.) 5 years</p> <p>(SUBJECT TO FINAL APPROVAL)</p> <p>Available to entrants from 2009-10</p>	<p>Chemistry with French (M.Chem. Honours) (5 year degree) : Level 1: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 80 credits comprising passes at grade 15 or better in CH2501, CH2603 and CH2701</p> <p>Level 3: 90 credits comprising CH3441 and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)</p> <p>Level 4: 90 credits comprising CH4442, CH4511, CH4611, CH4711, 20 credits from (CH4512, CH4613, CH4712, CH4713)</p> <p>Level 5: 90 credits comprising CH5441, CH5461 and 40 credits from (CH5511, CH5513-5, CH5611-4, CH5616, CH5711-4).</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(M.Chem. Honours): Chemistry with French and External Placement (M. Chem.) 5 years</p> <p>(SUBJECT TO FINAL APPROVAL)</p> <p>Available to entrants from 2009-10</p>	<p>Chemistry with French and External Placement (M.Chem. Honours) (5 year degree) :</p> <p>Level 1: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 80 credits comprising passes at grade 15 or better in CH2501, CH2603 and CH2701</p> <p>Level 3: 90 credits comprising CH3441 and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)</p> <p>Level 4: 90 credits from CH4441</p> <p>Level 5: 90 credits comprising CH5441, CH5461 and 40 credits from (CH5511, CH5513-5, CH5611-4, CH5616, CH5711-4).</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(M.Chem. Honours): Chemistry with Mathematics (M. Chem.) 5 years</p>	<p>Chemistry with Mathematics (M.Chem. Honours) (5 year degree) :</p> <p>Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004, pass in MT1002 and 3 other 1000-level modules or</p> <p>From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 120 credits comprising passes at 15 or better in CH2101, MT2001, (either CH2102 or CH2103) and (either MT2002 or MT2003) or</p> <p>From 2008-09: 60 credits comprising passes at 15 or better in CH2501 and CH2701</p> <p>Level 3: 125 credits comprising CH3441, and 60 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721), two of (MT3501, MT3503, MT3504), MT3600 or MT3601)</p> <p>Level 4: 115 credits comprising CH4442, 3 of (CH4511, CH4512, CH4611, CH4612, CH4613, CH4711, CH4712, CH4713) and 3 further 3000 or 4000 level MT modules.</p> <p>Level 5: 120 credits comprising CH5441, CH5461, CH5711, CH5712, CH5713, CH5714, 3 from (CH5511, CH5513-5, CH5611-6).</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(M.Chem. Honours) Chemistry with Medicinal Chemistry (M.Chem.) 5 years</p>	<p>Chemistry with Medicinal Chemistry (M.Chem) Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, Ch2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3613, CH3614, CH3621, CH3716, CH3721</p> <p>Level 4: 120 credits comprising CH4442, CH4511, CH4512, CH4611, CH4612, CH4613, CH4711, CH5612, CH5614.</p> <p>Level 5: 120 credits comprising CH5441, CH5462, CH5511, CH5513, CH5514, CH5515, CH5611, CH5613, CH5616</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(M.Chem. Honours): Chemistry with Medicinal Chemistry and External Placement (M.Chem.) 5 years</p>	<p>Chemistry with Medicinal Chemistry and External Placement (M.Chem): Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601</p> <p>Level 2: 60 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3613, CH3614, CH3621, CH3716, CH3721</p> <p>Level 4: 120 credits comprising CH4441, CH4451.</p> <p>Level 5: 120 credits comprising CH5441, CH5462, CH5511, CH5611-6</p> <p>Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(M.Sc. Honours): Chemistry and Physics (M.Sc. Honours) 5 years</p>	<p>Chemistry element of Chemistry-Physics M.Sc. Degree:</p> <p>Level 1: 40 credits comprising a pass or bypass in CH1001, CH1004 or From 2008-09: 40 credits comprising passes in CH1401 and CH1402</p> <p>Level 2: 60 credits comprising passes at 15 or better in CH2101 and either CH2102 or CH2103 or CH2104 or From 2008-09: 60 credits comprising passes at 15 or better in CH2501 and CH2701</p> <p>Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3614, CH3712, CH3721, CH4711, CH4712, CH4713</p> <p>Level 5: 40 credits from CH5441 or 60 credits from PH5101, at least 30 credits from CH5515, CH5711-CH5714</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>
<p>(M.Sc. Honours): Materials Science 5 years</p>	<p>Materials Science M.Sc. Degree:</p> <p>Level 1: 120 credits comprising a pass or bypass in CH1001, CH1004, CH1005, PH1011, PH1012 and MT1002 or From 2008-09: 120 credits comprising passes in CH1401, CH1402, CH1601, PH1011, PH1012 and MT1002</p> <p>Level 2: 120 credits comprising passes at grade 11 or better in CH2101, CH2102, CH2104 and either MT2001 or PH2011 or From 2008-09: 120 credits comprising passes at grade 15 or better in CH2501, CH2602, CH2701 and either PH2011 or MT2001</p> <p>Level 3: 120 credits comprising CH3441, CH3513, CH3712, CH3715, CH3717, CH3722, CH4711, CH4712, PH3002 and PH3074.</p> <p>Level 4: 120 credits comprising CH3511, CH4442, CH4452, CH4512, CH4713, two of (CH3512, CH3612, CH3613, CH3614, CH4511)</p> <p>Level 5: 120 credits from CH5441, CH5515, CH5712, CH5713, CH5716 CH5717, CH5718, PH5208</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>

Degree Programmes	Programme Requirements at:
<p>(M.Sci. Honours): Materials Science with External Placement 5 years</p>	<p>Materials Science with External Placement M.Sci. Degree:</p> <p>Level 1: 120 credits comprising a pass or bypass in CH1001, CH1004, CH1005, PH1011, PH1012 and MT1002 or From 2008-09: 120 credits comprising passes in CH1401, CH1402, CH1601, PH1011, PH1012 and MT1002</p> <p>Level 2: 120 credits comprising passes at grade 11 or better in CH2101, CH2102, CH2104 and either MT2001 or PH2011 or From 2008-09: 120 credits comprising passes at grade 15 or better in CH2501, CH2602, CH2701 and either PH2011 or MT2001</p> <p>Level 3: 120 credits comprising CH3441, CH3513, CH3712, CH3715, CH3717, CH3722, CH4711, CH4712, PH3002 and PH3074.</p> <p>Level 4: 120 credits comprising CH4441, CH4452</p> <p>Level 5: 120 credits from CH5441, CH5515, CH5712, CH5713, CH5716, CH5717, CH5718, PH5208</p> <p>Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000 modules and non-graduating students wishing to enter 3000 or 4000 level modules must consult with the relevant Honours Adviser within the School before making their selection.

InterDisciplinary (ID) Modules

There are modules which relate to this School – **ID4001 Communication and Teaching in Science** which is interdisciplinary and also appears in the Interdisciplinary Section of the Catalogue (Section 23)

Chemistry (CH) Modules

CH3431 Chemistry Workshop

Credits: 10 Semester: 1

Anti-requisite: CH3432, CH3433

Description: The aim of the module is to provide a basis in organic spectroscopy, molecular symmetry and point groups and their application to inorganic spectroscopy, and crystallography and X-ray diffraction. In addition, students will gain experience in chemical information retrieval and searching on-line databases.

Class Hour: To be arranged.

Teaching: Two seminars and one or two lectures, and occasional tutorials.

Assessment: Continuous Assessment = 100%

CH3441 Mini Chemistry Project

Credits: 20 Semester: 2

Anti-requisites ID3441, ID3442

Description: This is a group-based exercise where the students will tackle an unseen problem. Skills to be developed will vary but will include some or all of the following: The use of spectroscopy, retrosynthetic analysis, literature searching, web based searching and design, synthesis, catalysis, mechanistic studies, computational chemistry, surface chemistry, biological chemistry, communication skills.

Class Hour: 9.00 am Monday – Friday for 4 – 5 weeks.

Teaching: 7 hours per day 4 days a week, 4 hours on Wednesdays.

Assessment: Continuous Assessment = 100%

CH3442 External Placement for Chemical Sciences

Credits: 20 Semester: 2

Availability: Not available 2009-10

Description: This module is designed to carry out a placement in a company or other body, in order to assist students in selecting an appropriate career outside direct Chemistry, but in which they will find their background Chemical knowledge useful (examples might include, Scientific Publishing, Patent Office, Management in the Chemical Industry, Hospital Management).

Class Hour: Full-time – 3 months between March & Sept

Teaching: Full-time

Assessment: Continuous Assessment = 100%

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CH3511 Main Group Chemistry

Credits: 10 Semester: 2

Description: This module discusses the Chemistry of the elements of groups 2, 12, 13, 117 and 18, with particular reference to systematic trends and to the chemistry of the hydrides, halides, oxides, hydroxides and solid state compounds. In all cases the basic chemistry is linked to the exciting applications of the compounds in fields as diverse as clearing runways from snow in Northern Canada to night vision and metal-containing enzymes. It also explores aspects of solid state Chemistry. A major component of the module will cover the use of spectroscopic techniques, including multinuclear NMR and EPR, to characterize main group and other inorganic compounds.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3512 Organometallic Chemistry

Credits: 10 Semester: 1

Description: This module offers a systematic introductory treatment of organometallic compounds, emphasising fundamental concepts and the principal functional groups of organometallic chemistry. Topics include: the haptic nomenclature and 18-electron rule; synthesis of complexes of CO, alkyl, alkene, alkyne and carbocyclic ligands; static and dynamic structures; reactions of coordinated ligands; unit processes involved in homogeneous catalytic cycles.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3513 Advanced Solid State Chemistry

Credits: 10 Semester: 1

Prerequisite: CH2102

Description: This module on Advanced Solid State Chemistry brings together a number of advanced concepts including advanced crystal chemistry, electronic effects, phase equilibria and extended defects. It is key to the understanding of both modern solid state chemistry and materials science.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures over 7 weeks and three tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3521 Inorganic Chemistry Laboratory

Credits: 10 Semester: 2

Description: This module comprises practical experiments involving synthesis, characterisation and measurements in inorganic chemistry.

Class Hour: 9.00 am – 12.00 noon Monday to Friday

Teaching: 3 Hours daily for weeks 1 - 6.

Assessment: Continuous Assessment = 100%

CH3612 Synthetic Methodology

Credits: 10 Semester: 2

Description: This module will cover a wide range of synthetic methods and applications of the methods to the synthesis of complex molecules. Students will gain a deep understanding of the importance of methods involving sulfur, phosphorus, boron, silicon, organolithium and organozinc reagents. Students will also be introduced to modern methods of alkene, alkyne and biaryl synthesis using palladium and ruthenium catalysts. The use of the protecting groups in conjunction with these synthetic methods will also be covered.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3613 Carbohydrate and Nucleic Acid Chemistry

Credits: 10 Semester: 2

Description: The aim of the module is to cover aspects of the chemistry of nucleic acids. It will begin with an introduction to carbohydrate chemistry including discussion of biological processes, the synthesis of carbohydrates and carbohydrate-based pharmaceuticals. The structure and chemical synthesis of nucleic acids will then be discussed. The chemical reactivity of DNA and the ways in which it is chemically damaged will be examined. The chemical reactions of DNA will be related to mechanisms of carcinogenesis. The ways in which a range of drugs interact with DNA will be discussed in detail.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3614 Electron Flow in Organic Chemistry

Credits: 10 Semester: 1

Anti-requisite: CH3611

Description: This module will build on the basic understanding of organic reaction mechanism developed in the sub-honours organic chemistry modules. This module will focus on the critical role of orbitals in determining the reactivity and selectivity of organic compounds. Reaction mechanism described as a flow of electrons through a correctly aligned orbital manifold will be developed as a tool to explore key topics in synthetic chemistry, with particular emphasis on stereoelectronic effects, aspects of alicyclic chemistry and pericyclic reactions.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3621 Organic Chemistry Laboratory

Credits: 10 Semester: 1

Description: Practical experiments involving synthesis, characterisation and measurements in organic chemistry.

Class Hour: 9.00 am - 12.00 noon Monday to Friday.

Teaching: Daily three-hour practical classes over six weeks.

Assessment: Continuous Assessment = 100%

CH3712 Quantum Theory of Atoms, Molecules and Solids

Credits: 10 Semester: 2

Prerequisite: CH2102

Description: This module builds on 'Quantum Theory of Atoms, Molecules and Solids. Part I' given in CH 2102. It provides an introduction to further, basic concepts of quantum mechanics that are an essential part of the description of the electronic structures of atoms, molecules and solids. While the module is mathematically based, the emphasis throughout is on the physical and chemical implications of the mathematical results and how this provides a coherent, quantitative framework for understanding the beauty and complexities of the electronic structure of atoms, molecules and solids.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3713 Sustainable Chemistry in Relation to the Semiconductor Industry

Credits: 10 Semester: 2

Availability: Not available 2009-10

Description: This module focuses on the application of “green chemistry” concepts to the semiconductor and chemical industry. The module will examine the changes employed by the chemical and semiconductor industries in recent years in terms of production methods, cost, and the minimization of waste material. The module will also describe existing legislation as applied to the chemical industries.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

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CH3714 Surface Chemistry and Advanced Physical Chemistry

Credits: 10 Semester: 2

Availability: Not available 2009-10

Description: This module focuses on the surface properties of the solid state and in particular the chemical interactions between solid state materials and selected adsorbates. The module will also include analytical methods to determine the surface composition and chemical properties of solid state materials that may or may not possess semiconducting properties.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3715 Introduction to analysis of materials

Credits: 10 Semester: 2

Description: The objective of this module is to introduce the principles of the most popular materials analysis methods using X-ray, ion beams, electrons and diffraction methods. The module will cover analytical principles of X-ray photoelectron spectroscopy (XPS) and Auger electron spectroscopy (AES) together with secondary ion mass spectroscopy (SIMS) and X-ray Diffraction methods (XRD). Diffraction techniques will also be covered with the introductory aspects of Electron Energy Loss Spectroscopy (EELS) together with vibrational spectroscopic techniques.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3716 Quantitative Aspects of Medicinal Chemistry

Credits: 10 Semester: 1

Description: The aim of the module is to cover some of the quantitative aspects of Medicinal Chemistry and drug design. Initially some relevant fundamental thermodynamics will be discussed. The thermodynamics of the drug receptor interactions will then be covered along with other aspects of pharmacology. The pharmacokinetic phase of drug action will be described including the absorption, distribution, metabolism and elimination (ADME) of drugs. The use of computational chemistry in the modern drug design process will then be discussed, covering force field calculations, molecular docking, QSAR and virtual screening.

Class Hour: To be arranged.

Teaching: 3 lectures per week over 5 weeks and 3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3717 Statistical Mechanics and Computational Chemistry

Credits: 10 Semester: 1

Anti-requisites: CH3711, CH3716

Description: This module combines the study of statistical mechanics with an introduction to theoretical and computational methods as applied in modern chemistry. In the first set of lectures the molecular basis of thermodynamics is covered in an introduction to the study of statistical mechanics. The use of computational chemistry in the modern drug design process will then be discussed, covering force field calculations, molecular docking, QSAR and virtual screening.

Class Hour: To be arranged.

Teaching: 2 - 3 lectures per week over 5 weeks and 2 - 3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH3721 Physical Chemistry Laboratory

Credits: 10 Semester: 1
Anti-requisite: CH3722
Description: This module comprises practical experiments involving physical measurements and the use of computational programmes in Chemistry.
Class Hour: 9.00 am – 12.00 noon or 1.00pm Monday to Friday
Teaching: 3 – 4 hours per day for 5 weeks
Assessment: Continuous Assessment = 100%

CH3722 Materials Laboratory

Credits: 10 Semester: 1
Anti-requisite: CH3721
Description: This module comprises practical experiments involving physical measurements and the use of computational programmes in Materials Science.
Class Hour: 9.00 am – 12.00 noon or 1.00 pm Monday to Friday
Teaching: 3 – 4 hours per day for 5 weeks
Assessment: Continuous Assessment = 100%

CH4441 External Placement

Credits: 90 Semester: Whole Year
Co-requisite: CH4451 or CH4452 or FR5810
Description: This module is intended to provide each individual student with direct experience of work in an industrial or similar laboratory. Activities are very varied, according to the nature of the particular company's or organisation's area of business. Some students will be engaged in synthetic work and some in analytical/measurement activities. Some will be based exclusively in a laboratory, while others will also be involved in liaison with the company's plant operators or with its customers.
Teaching: Day to day supervision by company supervisor, liaising with member of School academic staff.
Assessment: Continuous Assessment = 100%

CH4442 Chemistry Research Project

Credits: 40 Semester: Whole Year
Anti-requisites: CH4443 - CH4448, ID4441
Description: The research project at Level 4000 aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised by a member of the academic staff.
Class Hour: Two days per week, to be arranged.
Teaching: Laboratory-based research project.
Assessment: Continuous Assessment = 100%

CH4443 Chemistry Research Project for Non-graduating Students

Credits: 45 Semester: Either
Anti-requisites: CH5441, CH4442, CH4444 - CH4448, ID4441
Description: The research project at Level 4000 only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised by a member of the academic staff.
Class Hour: Two days per week, to be arranged.
Teaching: Laboratory-based research project.
Assessment: Continuous Assessment = 100%

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CH4444 Chemistry Research Project

Credits: 60 Semester: Either or both

Anti-requisites: CH5441, CH4442 - CH4443, CH4445 - CH4448, ID4441

Description: The research project at Level 4000 only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised by a member of the academic staff.

Class Hour: To be arranged.

Teaching: Laboratory-based research project.

Assessment: Continuous Assessment = 100%

CH4445 Chemistry Research Project for Non-graduating Students

Credits: 90 Semester: Whole Year

Anti-requisites: CH5441, CH4442 - CH4444, CH4446 - CH4448, ID4441

Description: The research project at Level 4000 only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised by a member of the academic staff.

Class Hour: To be arranged.

Teaching: Laboratory-based research project.

Assessment: Continuous Assessment = 100%

CH4446 Chemistry Research Project for Non-graduating Students

Credits: 120 Semester: Whole Year

Anti-requisites: CH5441, CH4442 - CH4445, CH4447, CH4448, ID4441

Description: The research project at Level 4000 only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised by a member of the academic staff.

Class Hour: To be arranged.

Teaching: Laboratory-based research project.

Assessment: Continuous Assessment = 100%

CH4447 Level 4000 Project for Chemistry/Pharmacology

Credits: 40 Semester: Whole Year

Anti-requisites: CH4442 - CH4446, CH4448, CH5441, ID4441

Description: The research project at Level 4000 for Chemistry/Pharmacology students only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised jointly by members of the academic staff in Chemistry and Biology.

Class Hour: Two days per week, to be arranged.

Teaching: Laboratory-based research project.

Assessment: Continuous Assessment = 100%

CH4448 Chemistry Project for Chemistry and Geoscience

Credits: 20 Semester: 1

Anti-requisites: CH4442 – CH4447, CH5441, ID4441

Description: The research project at Level 4000 only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation.

Class Hour: To be arranged.

Teaching: Laboratory-based research project.

Assessment: Continuous Assessment = 100%

CH4451 MChem Distance Learning

Credits: 30 Semester: Whole Year

Anti-requisites: CH4511, CH4611, CH4711, CH4452

Co-requisite: CH4441

Description: This module offers the material covered by Level 4000 BSc/MChem modules CH4511, CH4611 and CH4711 in a distance learning mode to students on the MChem one year placement. See the module descriptions for modules CH4511, CH4611 and CH4711 for details of module content.

Teaching: Distance Learning

Assessment: Continuous Assessment = 100%

CH4452 Materials Science Distance Learning

Credits: 30 Semester: Whole Year

Description: This distance learning module allows students to develop an advanced understanding of the basic concepts of Materials Science. It will be delivered in three sections, metals, ceramics and polymers, each approximately equivalent to a normal 10 credit lecture module.

Teaching: Distance Learning

Assessment: Continuous Assessment = 100%

CH4461 Integrating Chemistry

Credits: 10 Semester: 1

Anti-requisites: CH4462, CH5461 and CH5462

Description: This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. Students will be expected to read externally on related topics. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. The problems will be aimed at Level 4000 standard.

Class Hour: To be arranged.

Teaching: Two classes each week for 9 weeks.

Assessment: Continuous Assessment = 40%, One-and-a-half Hour Examination = 60%

CH4462 Integrating Chemistry for Medicinal Chemistry

Credits: 10 Semester: 1

Anti-requisites: CH4461, CH5461 and CH5462

Description: This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. Students will be expected to read externally on related topics. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. A proportion of the problems and examples will contain material specifically relevant to medicinal chemistry.

Class Hour: To be arranged.

Teaching: Two classes each week for 9 weeks.

Assessment: Continuous Assessment = 40%, One-and-a-half Hour Examination = 60%

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CH4511 Inorganic Reaction Mechanisms and Bioinorganic Chemistry

Credits: 10 Semester: 1

Anti-requisite: CH4451

Description: This module aims to develop the students' understanding of the mechanisms that lie behind the reactions of inorganic compounds and to explore the role played by inorganic systems in biology and their growing importance in medicine. There will also be discussion of the mechanisms of action of some inorganic systems in biology which will link the two parts of the module together.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4512 Chemistry in the Natural Environment

Credits: 10 Semester: 2

Description: This module is concerned with the role of chemical processes in the Earth's crust responsible for the development of natural resources, such as minerals and petroleum, and the role of chemistry in their exploitation. The effect of natural and anthropogenic processes on the natural environment will also be discussed, particularly with reference to water chemistry, together with chemical routes to safeguard water quality.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4611 Target Synthesis and Medicinal Chemistry

Credits: 10 Semester: 1

Anti-requisite: CH4451

Description: The module will cover aspects of organic chemistry that are important for the synthesis of biologically active compounds such as pharmaceuticals and agrochemicals. Firstly, fundamental aspects of heterocyclic chemistry will be discussed, with a review of the structure, reactivity and synthesis of heterocyclic systems, which is important as the majority of pharmaceuticals and agrochemicals are heterocyclic compounds. The module will then go on to discuss the process of industrial chemical synthesis. This will include the design of synthetic routes, choice of reagents and conditions, as they apply to the development of processes for the synthesis of commercially important molecules.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4612 Blockbuster Pharmaceuticals

Credits: 10 Semester: 1

Anti-requisite: CH5615

Description: The module will discuss case studies from the most successful pharmaceutical products. How the compounds came to be discovered, what diseases they are targeting, how they work and how they are made and delivered to the market. Compounds that will feature are aspirin, penicillin, AZT, 5-fluorouracil, Zantac, viagra, β -blockers, prozac etc.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4613 Natural Products and Society

Credits: 10 Semester: 2

Description: Natural products are low molecular weight compounds produced by plants, fungi and bacteria. They have had a dramatic impact in shaping our society. The module will discuss the impact of natural products in medicine, the food industry and in society more generally. Particular case studies will be covered eg. The discovery and impact of penicillin from a fungal mould, morphine as the most widely prescribed pain killer, taxol from the yew tree as a new generation anticancer compound. The role of natural flavours and fragrances in the food and cosmetics industries will be highlighted as well as the impact of plant alkaloids in medicine.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4711 Physical Chemistry of Solutions

Credits: 10 Semester: 1

Anti-requisite: CH4451

Description: This module discusses the physical chemistry of and in solutions. In the first part the thermodynamics of ideal and non-ideal solutions are covered, together with micellar solutions and the chemistry of colloidal suspensions. In the second part solution electrochemistry is covered.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4712 Energy Conversion and Storage

Credits: 10 Semester: 2

Description: In our efforts to mitigate global warming it is essential to develop new and improved methods of generation and storage of energy. Foremost among these methods are the electrochemical technologies of batteries and fuel cells. In this module we will discuss the technical details and applications of such devices. Particular emphasis will be placed on the underlying electrochemistry and materials chemistry.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH4713 Interactions of Light with Matter

Credits: 10 Semester: 2

Description: This module describes the fascinating properties of matter relevant to their interaction with electromagnetic radiation. Absorption, transmission, reflection and diffraction of light across the electromagnetic spectrum is covered. The properties of matter, particularly in the gas and solid phases, which are important for the emission, modification and transport of light are discussed at the atomic and molecular level.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH5441 Research Project

Credits: 40 Semester: Whole Year

Anti-requisites: CH4443, CH4445, CH4448, ID4441

Description: The research project at Stage 5 of the M.Chem. programme aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project is supervised by a member of the academic staff. The project topic and aims will be selected by both supervisor and student and a literature survey will be carried out.

Class Hour: Two days per week, to be arranged.

Teaching: Laboratory-based research project

Assessment: Continuous Assessment = 100%

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CH5461 Integrating Chemistry

Credits: 10 Semester: 1

Anti-requisites: CH5462, CH4461, CH4462

Description: This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. Students will be expected to read externally on related topics. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. The problems will be aimed at Level 5000 standard.

Class Hour: To be arranged.

Teaching: Two weekly classes over nine weeks.

Assessment: Continuous Assessment = 40%, One-and-a-half Hour Examination = 60%

CH5462 Integrating Chemistry for Medicinal Chemistry

Credits: 10 Semester: 1

Anti-requisites: CH5461, CH4461, CH4462

Description: This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. A proportion of the problems and examples will contain material specifically relevant to Medicinal chemistry.

Class Hour: To be arranged.

Teaching: 2-3 weekly classes over 6-8 weeks.

Assessment: Continuous Assessment = 40%, One-and-a-half Hour Examination = 60%

CH5511 Homogeneous Catalysis

Credits: 10 Semester: 1

Description: This module discusses the use of metal based systems in organic transformations and a detailed treatment of homogeneous catalysis. Important processes in the petrochemicals industry will be used to exemplify the principles described.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH5513 Inorganic Rings, Cages and Clusters and Macrocyclic Chemistry

Credits: 10 Semester: 2

Description: This module discusses the importance of and structural similarities between rings, cages and clusters particularly in main group chemistry. Recognition of cations and anions using macrocycle, cryptand and spherand hosts will be discussed, as will the interaction of neutral molecules with cyclodextrins, calixarenes, cyclophanes and clefts with applications in catalysis and as enzyme mimics. Recent developments in other applications such as molecular electronics and solar energy conversion will be described.

Class Hour: To be arranged.

Teaching: 2-3 weekly lectures over 5-7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5514 Advanced Coordination Chemistry

Credits: 10 Semester: 2

Description: This is a Masters level module in advanced co-ordination chemistry covering the heavier d-block and f-block metals and also the theory behind bonding, magnetism and electronic spectroscopy in d-block metal complexes. At the end of the module students should be in a position to understand fully the nature of bonding in d- and f-block metal systems, to understand the electronic spectra of d-block complexes and to rationalise trends in chemical properties both down and across the periodic table.

Class Hour: To be arranged.

Teaching: 2-3 weekly lectures over 5-7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5515 Characterisation of Solids

Credits: 10 Semester: 2

Description: This module aims to describe the most important experimental techniques available for the characterisation of solids, viz. X-ray crystallography, solid-state NMR and transmission electron microscopy. The fundamentals of each technique, together with examples of their applications to inorganic chemistry will be covered.

Class Hour: To be arranged.

Teaching: 2 – 3 weekly lectures over 5-7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5611 Asymmetric Synthesis

Credits: 10 Semester: 1

Description: This module discusses the methods available for the synthesis of chiral compounds. After a detailed introduction to the specialised terminology and analytical methods used, the main methods using chiral auxiliaries, chiral reagents and chiral catalysts will be described. This will then be combined with a consideration of synthetic strategy and total syntheses of several complex chiral compounds will be discussed.

Class Hour: To be arranged.

Teaching: 2 – 3 lectures per week over 5 – 7 weeks and 2-3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH5612 Natural Products, Biosynthesis and Enzyme Co-factors

Credits: 10 Semester: 2

Description: The module will investigate the biosynthesis of the main natural products groups (polyketides, terpenes, alkaloids). Unifying features of their structures and biosynthesis will be described and methods for studying the biosynthesis of natural products will be taught (isotope tracer methods). The common enzyme co-factors (PLP, TPP, NADH, co-enzyme B12) will be highlighted and their mechanistic role in mediating enzymatic transformations will be explored.

Class Hour: To be arranged.

Teaching: 2–3 weekly lectures over 5-7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5613 Reactive Intermediates

Credits: 10 Semester: 2

Description: Aspects of the organic chemistry of the most important reactive intermediates viz.: carbocations, carbanions, free radicals, carbenes, nitrenes and arynes will be covered. Means of generating each type of reactive intermediate will be introduced. The key reactions of each intermediate will be reviewed and their characteristic reactions highlighted. An understanding of the use of each species in organic synthesis and of their significance in mechanistic analysis will be developed.

Class Hour: To be arranged.

Teaching: 2–3 weekly lectures over 5-7 weeks

Assessment: One-and-a-half Hour Examination = 100%

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CH5614 Chemical Biology

Credits: 10 Semester: 2

Description: This module will examine new methodologies for drug discovery. An overview of the processes of target discovery, lead discovery and lead optimisation will be given. The use of structural biology (protein crystallography, NMR), computational chemistry and combinatorial chemistry in 'rational drug design' will be described. The module will look at the technologies behind combinatorial library design, synthesis and high throughput screening. Broad and focused libraries will be discussed. Several examples will be explored, such as the development of drugs against AIDS and influenza.

Class Hour: To be arranged.

Teaching: 2–3 weekly lectures over 5–7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5615 Advanced Pharmaceutical Chemistry

Credits: 10 Semester: 1

Anti-requisite: CH4612

Description: The module will discuss case studies from the most successful pharmaceutical products. How the compounds came to be discovered, what diseases they are targeting, how they work and how they are made and delivered to the market. Compounds that will feature are aspirin, penicillin, AZT, 5-fluorouracil, Zantac, viagra, β -blockers, prozac etc.

Class Hour: To be arranged.

Teaching: Two - three lectures over 5–7 weeks, two tutorials, plus extra directed reading.

Assessment: One-and-a-half Hour Examination = 100%

CH5616 Molecular Recognition

Credits: 10 Semester: 2

Description: This module offers a systematic introductory treatment of molecular recognition, emphasizing fundamental concepts of intermolecular interactions and molecular recognition in solution. The nature, strength and directionality of orbital, hydrogen-bonding and hydrophobic interactions will be explored. Spectroscopic and other techniques for studying these interactions will be outlined with examples.

Class Hour: To be arranged.

Teaching: Two - three lectures over 5–7 weeks, two - three tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH5711 Advanced Spectroscopic Methods

Credits: 10 Semester: 1

Description: This module describes the importance of more advanced spectroscopic methods for the elucidation of structure and properties of increasingly complex molecules and materials. Particular attention will be paid to those techniques which exploit synchrotron radiation.

Class Hour: To be arranged.

Teaching: 2–3 lectures per week over 5–7 weeks and 2–3 tutorials.

Assessment: One-and-a-half Hour Examination = 100%

CH5712 Functional Materials / Electrons in Solids

Credits: 10 Semester: 2

Description: The module introduces the physical concepts of dielectrics, semiconductors, and metals. Electronic properties of interfaces and thin films which are fundamental to devices such as microprocessors, lasers in CD players, or solar cells will be discussed.

Class Hour: To be arranged.

Teaching: 2–3 lectures over 5–7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5713 Surface Science and Heterogeneous Catalysis

Credits: 10 Semester: 2

Description: The module describes the Chemistry of solid surfaces with particular reference to the structure of metal, oxide and semiconductor surfaces. The techniques available to characterise the uppermost atomic layers of a solid are presented and the novel reactivity of surfaces is linked to applications in sensors, electronic devices, heterogeneous catalysis as well as the processes of corrosion, friction and wear.

Class Hour: To be arranged.

Teaching: 2–3 weekly lectures over 5–7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

CH5714 Statistical Mechanics and Quantum Mechanics

Credits: 10 Semester: 2

Prerequisites: CH3711, CH3712

Description: This module builds on 'Statistical Mechanics. Part I', given in CH3712, 'Quantum Theory of Atoms, Molecules and Solids. Part I' given in CH 2102 and 'Quantum Theory of Atoms, Molecules and Solids. Part II' given in CH3711. While the module is mathematically based, the emphasis throughout is on the physical and chemical implications of the mathematical results and how this provides a coherent, quantitative framework for understanding the basis of thermodynamics and the electronic structure of atoms, molecules and solids.

Class Hour: To be arranged.

Teaching: 2–3 weekly lectures over 5–7 weeks.

Assessment: One-and-a-half Hour Examination = 100%

FR5810 Science Project Report in French

Credits: 30 Semester: Whole Year

Prerequisites: Admission to stage 4 of MChem with French Programme

Anti-requisites: FR3101, FR3103, FR3810, FR3809, FR4809

Co-requisites: CH4441 or CH4442

Description: This module offers students the opportunity of personal study arising from a work placement or research project in connection with their science course. It will be assessed by a dissertation in French, normally 5,000 words in length including any quotations, on an agreed topic for which the student already possesses adequate foundation knowledge and for which suitable linguistic supervision can be provided. During the work placement or project year, students will collect data for their dissertation and will prepare a plan in French which will be submitted at the beginning of their final year. This will provide a benchmark for writing the dissertation, which will allow any relevant knowledge acquired during the final year to be incorporated.

Assessment: Dissertation = 100%

GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change

Credits: 15 Semester: 2

Prerequisites: GE2011/ GE2012 or GS2011/GS2012 or SD2001 or BL2105. Familiarity with basic chemistry and mathematics is desirable, but not essential.

Description: Terrestrial ecosystems play a central role in modulating the flow of energy and materials in the Earth system, regulating trace gas exchange with the atmosphere, the transfer of carbon and nutrients with rivers and oceans, and the natural attenuation of pollutants. Understanding how terrestrial ecosystems function is crucial to addressing problems such as climate change, stratospheric ozone loss, and environmental pollution. This module will develop principles of ecosystems ecology and biogeochemistry, focusing on major elemental cycles, soil processes, and human activity. In addition to students in Geography and Geosciences, this module also welcomes students from Sustainable Development, Biology and Chemistry.

Class Hour: To be arranged.

Teaching: Two lectures and occasional tutorials.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

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ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

ID4441 Combined Chemistry and Geoscience Research Project

Credits: 35 Semester: both

Prerequisites: Admission to stage 4 of BSc programme

Anti-requisites: CH4442-CH4448, CH5441

Description: The research project at Level 4000 for Chemistry and Geoscience students only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised jointly by members of the academic staff in Chemistry and Geoscience.

Class Hour: Two days per week.

Teaching: Reflection, laboratory work, library work, written and oral presentation preparation.

Assessment: Continuous Assessment = 100%

School of Classics

Including: Ancient History, Classical Studies, Greek and Latin

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Ancient History</p> <p>(this programme applies to entrants to Honours before 2009-10)</p>	<p>Single Honours Ancient History:</p> <p>Level 1: 40 credits from AN1001, AN1002</p> <p>Level 2: 40 credits from AN2002, AN2003, CL2003 and CL2004, with two passes at Grade 11 in 2000-level modules.</p> <p>Level 3: 30 credits from AN3034</p> <p>Level 4: 30 credits from AN4999 and at least 150 credits from AN4103 – AN4998 and CL4004 – CL4995, save that modules from other degree programmes may be offered in place of 30 credits with the permission of the Heads of School concerned.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Ancient History</p> <p>(this programme applies to entrants to Honours in 2009-10 or later)</p>	<p>Single Honours Ancient History:</p> <p>Level 1: 40 credits from AN1001, AN1002</p> <p>Level 2: 40 credits from AN2002, AN2003, CL2003 and CL2004, with two passes at Grade 11 in 2000-level modules.</p> <p>Levels 3 and 4: 30 credits from CL4999 and at least 60 credits from AN4103 - AN4998. The remaining 150 credits must be taken from AN4103 - AN4998 and CL4004 - CL4995, save that modules from other degree programmes may be offered in place of 30 credits with the permission of the Heads of School concerned.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Classics – Honours 2009/10 – August 2009

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Ancient History and Art History, Biblical Studies, Economics, Film Studies, French[^], German[^], Greek, Italian[^], Latin, Mathematics, Spanish[^].</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p> <p>(this programme applies to entrants to Honours before 2009-10)</p>	<p>Ancient History element of Joint Degrees: Level 1: 40 credits from AN1001, AN1002</p> <p>Level 2: 40 credits from AN2002, AN2003, CL2003 and CL2004, with two passes at Grade 11 in 2000-level modules.</p> <p>Level 3: 30 credits from AN3034</p> <p>Level 4: 60 credits from AN4103 – AN4999, and CL4004 – CL4995.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Ancient History and Art History, Biblical Studies, Economics, Film Studies, French[^], German[^], Greek, Italian[^], Latin, Mathematics, Spanish[^].</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p> <p>(this programme applies to entrants to Honours in 2009-10 or later)</p>	<p>Ancient History element of Joint Degrees: Level 1: 40 credits from AN1001, AN1002</p> <p>Level 2: 40 credits from AN2002, AN2003, CL2003 and CL2004, with two passes at Grade 11 in 2000-level modules.</p> <p>Levels 3 and 4: at least 60 credits from AN4103 - AN4998 and a further 30 credits from AN4103 - AN4998 and CL4004 - CL4999</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Ancient History and Philosophy</p> <p>(this programme applies to entrants from 2009-10)</p>	<p>Ancient History element of this Joint Degree: Levels 1& 2: 40 credits from AN1001 & AN1002</p> <p>Level 2: 40 credits with two passes at Grade 11 or better in AN2002, AN2003, CL2003, and CL2004.</p> <p>Levels 3 and 4: at least 60 credits from AN4103 –AN4998 and a further 30 credits from AN4103-AN4998 and CL4004 – CL4999.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Ancient History and Philosophy</p> <p>(this programme applies to entrants in 2007-08 and 2008-09)</p>	<p>Ancient History element of this Joint Degree: Levels 1 & 2: 40 credits from AN1001 & AN1002</p> <p>Level 2: 40 credits with two passes at Grade 11 or better in AN2002, AN2003, CL2003, and CL2004.</p> <p>Level 3: 30 credits from AN3034</p> <p>Level 4: 60 credits from AN4103 – AN4999, and CL4004 – CL4995.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Ancient History & Archaeology</p>	<p>Ancient History & Archaeology Degree: Level 1: 40 credits from AN1001, AN1002</p> <p>Level 2: 40 credits from AN2002, AN2003, CL2003 and CL2004, with two passes at Grade 11 in 2000-level modules.</p> <p>Level 3: 30 credits from AN3020</p> <p>Level 4: AN4999 plus 90 credits from AN4117, AN4121 – AN4127, AN4130 – AN4133, AN4144 – AN4150, CL4407, CL4424 – CL4427, 30 credits of which may be substituted from ME3014 – ME3497, plus at least 60 credits from AN4103 – AN4998, CL4004 – CL4495.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Classical Studies</p> <p>(this programme applies to entrants from 2007-08)</p>	<p>Single Honours Classical Studies: Levels 1 & 2: 80 credits in 1000-level or 2000-level modules in AN, CL, GK or LT, including at least 40 credits in 2000-level modules and including at least one of the following pairs of modules: CL1003 + CL1002 or CL1004 + CL1005, CL2003 + CL2004; and with a pass at 11 or better in at least two 2000-level modules in AN, CL, GK or LT.</p> <p>Levels 3 & 4: 30 credits from CL4999 and at least 180 credits from CL4004 – CL4495, AN4103 – AN4998 of which at least 120 must be CL modules.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Classics – Honours 2009/10 – August 2009

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Classical Studies</p> <p>(this programme applies to entrants before 2007-08)</p>	<p>Single Honours Classical Studies:</p> <p>Levels 1 & 2: 80 credits in 1000-level or 2000-level modules in AN, CL, GK or LT, including at least 40 credits in 2000-level modules and including at least one of the following pairs of modules: CL1003 + CL1002 or CL1004 + CL1005, CL2003 + CL2004; and with a pass at 11 or better in one 2000-level module.</p> <p>Levels 3 & 4: 30 credits from CL4999 and at least 180 credits from CL4004 – CL4495, AN4103 – AN4998 of which at least 120 must be CL modules.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Classical Studies and Art History, Biblical Studies, English, Film Studies, French[^], Geography, Greek, International Relations, Italian[^], Latin, Mathematics, Mediaeval History, Middle East Studies, Modern History, New Testament, Philosophy, Scottish History, Social Anthropology, Theological Studies.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>(this programme applies to entrants before 2007-08)</p>	<p>Classical Studies element of Joint Degrees:</p> <p>Levels 1 & 2: 80 credits in 1000-level or 2000-level modules in AN, CL, GK or LT, including at least 40 credits in 2000-level modules and including at least one of the following pairs of modules: CL1003 + CL1002 or CL1004 + CL1005, CL2003 + CL2004; and with a pass at 11 or better in one 2000-level module.</p> <p>Levels 3 & 4: At least 90 credits from CL4004 – CL4999, AN4103 – AN4998, of which at least 60 credits must be taken from CL modules.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Classical Studies and Art History, Biblical Studies[~], English, Film Studies, French[^], Greek, Integrated Information Technology^{**}, International Relations, Italian[^], Latin, Mathematics, Mediaeval History, Middle East Studies, Modern History, New Testament, Philosophy, Scottish History, Social Anthropology, Theological Studies.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>^{**} This degree is only available to students already enrolled in the programme</p> <p>(this programme applies to entrants from 2007-08)</p> <p>[~] Timetable clash exists therefore this combination is subject to arrangement between the two departments</p>	<p>Classical Studies element of Joint Degrees:</p> <p>Levels 1 & 2: 80 credits in 1000-level or 2000-level modules in AN, CL, GK or LT, including at least 40 credits in 2000-level modules and including at least one of the following pairs of modules: CL1003 + CL1002 or CL1004 + CL1005, CL2003 + CL2004; and with a pass at 11 or better in at least two 2000-level modules in AN, CL, GK or LT.</p> <p>Levels 3 & 4: At least 90 credits from CL4004 – CL4999, AN4103 – AN4998, of which at least 60 credits must be taken from CL modules.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Classics</p>	<p>Single Honours Classics:</p> <p>Levels 1 & 2: 40 credits in both 1000-level and 2000-level GK modules and 40 credits in both 1000-level and 2000-level LT modules, with passes at 11 or better in one of GK2001, GK2002, GK2003 or GK2004 and in one of LT2001, LT2002, LT2003 or LT2004. Students who have passed both GK2004 and LT1002 with a grade of 11 or better, but who have not taken LT2003 and LT2004, may enter Honours Classics on condition that they take LT3017 and LT3018 in the first year of Honours. Students who have passed both LT2004 and GK1002 with a grade of 11 or better, but who have not taken GK2003 and GK2004, may enter Honours Classics on condition that they take GK3021 and GK3022 in the first year of Honours.</p> <p>Levels 3 & 4: At least 150 credits from GK4100 – GK4999 and LT4201 – 4999 including a minimum of 60 credits in each of GK and LT, plus at least 60 credits from other 4000-level modules in AN, CL, GK and LT. 30 credits may also be substituted in this last category from EITHER ML3009 and ML3020/ML4020 (Romance Philology I and II) OR DI4726 (Hebrew Readings)/ DI4705 (Biblical Aramaic). Students who take LT3017 and LT3018 in place of LT2003 and LT2004 must take at least 120 credits from GK4100-GK4999 and LT4201-LT4999, of which at least 30 credits must be from LT4201-LT4998, plus at least 30 credits from other 4000-level modules in AN, CL, GK and LT. Students who take GK3021 and GK3022 in place of GK2003 and GK2004 must take at least 120 credits of GK4100-GK4999 and LT4201-LT4999, of which at least 30 credits must be from GK4100-GK4998, plus at least 30 credits from other 4000-level modules in AN, CL, GK and LT.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Classics and French, Italian[^], Management, Philosophy, Spanish[^].</p> <p>[^] available also as a ‘With Integrated Year Abroad Degree’.</p>	<p>Classics element of Joint Honours Degrees:</p> <p>Levels 1 & 2: 40 credits in both 1000-level and 2000-level GK modules and 40 credits in both 1000-level and 2000-level LT modules, with passes at 11 or better in one of GK2001, GK2002, GK2003 or GK2004 and in one of LT2001, LT2002, LT2003 or LT2004</p> <p>Levels 3 & 4: 120 credits from GK4100 – GK4999 and LT4201 – LT4999, including at least 30 credits of GK and 30 credits of LT modules, of which up to 30 credits may be taken in other 3000-level or 4000-level modules in AN or CL (or, alternatively, in ML3009 and ML3020/ML4020, Romance Philology).</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p> <p>†The same degree can be achieved in five years with an integrated year in a Spanish speaking country (WIYA) after successful completion of second year by taking SP3101 and writing up a dissertation project in Spanish, which can be related to a topic of interest to Classical Studies, to be submitted to the Spanish Department by 5th May of the year of placement (60 additional credits).</p>

Classics – Honours 2009/10 – August 2009

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Greek</p>	<p>Single Honours Greek: Level 1: 40 credits in 1000-level GK modules</p> <p>Level 2: 40 credits in 2000-level GK modules, with a pass at 11 or better in one of GK2001, GK2002, GK2003 or GK2004</p> <p>Levels 3 & 4: At least 150 credits from GK4100 – GK4998, of which GK4998 is compulsory, and a further 60 credits from 4000-level modules in AN, CL, GK or LT.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Greek and Ancient History, Art History, Biblical Studies, Classical Studies, English, French[^], Hebrew, Italian[^], Latin, New Testament, Philosophy, Spanish[^].</p> <p>[^] – available 'With Integrated Year Abroad'</p>	<p>Greek element of Joint Honours Degrees: Level 1: 40 credits in 1000-level GK modules</p> <p>Level 2: 40 credits in 2000-level GK modules, with a pass at 11 or better in one of GK2001, GK2002, GK2003 or GK2004.</p> <p>Level 3 & 4: 120 credits, comprising at least 90 credits from GK4100 – GK4999 with up to 30 credits from other 4000-level modules in AN, CL, GK and LT.</p> <p>Students who have passed GK1002 in their second year with a grade of 11 or better may enter Joint Honours Greek on condition that they take GK3021 and GK3022 in their first year of Honours.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Latin</p>	<p>Single Honours Latin: Level 1: 40 credits in 1000-level LT modules</p> <p>Level 2: 40 credits in 2000-level LT modules, with a pass at 11 or better in one of LT2001, LT2002, LT2003 or LT2004</p> <p>Levels 3 & 4: 150 credits from LT4201 - LT4999; plus 60 credits from other 4000-level modules in AN, GK, LT, or ML3009 and ML4020. Modules from other Degree Programmes may be offered in place of up to 30 credits of this 60, with the permission of the Heads of School concerned.</p> <p>Other information: In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Latin and Ancient History, Arabic, Classical Studies, English, French[^], Greek, Hebrew, Italian[^], Mathematics, Mediaeval History, Middle East Studies, New Testament, Philosophy, Russian[^], Spanish[^].</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees</p>	<p>Latin element of Joint Honours Degrees: Level 1: 40 credits in 1000-level LT modules</p> <p>Level 2: 40 credits in 2000-level LT modules, with a pass at 11 or better in one of LT2001, LT2002, LT2003 or LT2004</p> <p>Levels 3 & 4: 90 credits from LT4201 - LT4999; plus 30 credits from other 4000-level modules in AN, GK, LT, or ML3009 and ML4020.</p> <p>Students who have passed LT1002 in their second year with a grade of 11 or better may enter Joint Honours Latin on condition that they take LT3017 and LT3018 in their first year of Honours.</p> <p>Other information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

Ancient History (AN) Modules

AN3020 Principles and Techniques in Archaeology

Credits: 30 Semester: 1

Prerequisite: Entry to Honours Archaeology and Ancient History or Honours Mediaeval History and Archaeology, or Honours Divinity or Honours Biblical Studies

Anti-requisite: AN3034

Description: This module, which draws on archaeological material from around the world, is divided into two sections. The first is a series of seminars and lectures on the central practical concerns of archaeology: the way in which the type of excavation affects the resulting evidence; methods of studying sites and artefacts; how to publish archaeological material, and the importance of conservation. This will give a general grounding to enable students to understand archaeological reports, and to apply this understanding to other parts of the Honours degree. The second part will address the important contribution of theoretical archaeology to the discipline, while also elucidating the practical applications and relevance of theory.

Class Hour: 2.00 – 4.00 pm Thursday.

Teaching: One lecture and one two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Classics – Honours 2009/10 – August 2009

AN4108 The Disintegration of the Roman Empire

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module examines the transformation of the Roman Empire from a political unity extending from Britain to the Euphrates into a collection of independent kingdoms under Germanic rulers covering Western Europe, while the East remained united under an emperor based at Constantinople. It studies administrative structures, the societies and economies of city and country and the supposed internal problems of the empire. The second part analyses military problems, federates and the rise of the independent kingdoms in the fifth century AD.

Class Hour: 11.00 am - 1.00 pm Tuesday

Teaching: One seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4117 Art of the Roman Empire

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will examine the art of Italy and the provinces of the Roman Empire between the last century BC and the fourth century AD. It will include consideration of monumental art and also private art in a variety of media such as sculpture, wall paintings and mosaics. The module will look at issues such as the employment of art by the state, at the domestic contexts of art, and the artistic treatment of themes such as myth, historical events, death and sexuality. Special attention will be given to particularly rich case studies including Pompeii, Dura-Europos and Roman Britain.

Class Hour: 2.00 - 4.00 pm Thursday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4118 Julius Caesar

Credits: 30 Semester: 2

Availability: 2009-10

Description: We will examine the life and achievements of Julius Caesar as politician, general and author. Was Caesar a visionary who perceived the corruption of the Republic or a power-hungry autocrat? Was his conquest of Gaul and act of statesmanship or an immoral war? Through our analysis of Caesar's life, we will also study historical problems and issues concerning the last century of the Roman Republic. Particular emphasis will be placed on developing and analyzing historical arguments based on ancient evidence (in translation). To this end, we will read ancient sources, including Caesar's own writings, in parallel with modern scholarship.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 75%, 2 Hour Examination = 25%

AN4121 The Ancient City of Rome

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module examines the history and archaeology of the city of Rome from its earliest beginnings to the 5th century AD. Several themes are pursued through, in particular the view of Rome as a centre of power and patronage, the capital of empire and residence of kings and emperors. Rome's physical development, the problems of feeding and administering such an immense ancient city, the architectural and artistic implications of rulers' aspirations, and the urban religions are all explored.

Class Hour: 9.00 – 11.00 am Thursday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4127 In the footsteps of the Ancients: exploring the archaeology and topography of Greece

Credits: 30 Semester: 2

Availability: 2009-10

Description: Through on-site teaching in Greece and home lectures, this course studies how and why Greek secular and religious sites developed where they did, what their different functions may have been (in relation to architecture/topography), how these changed over time, and what important interactions existed within and between secular and religious sites. On-site teaching will also allow treatment of the nature of site-excavation and its impact on interpretation, as well as development of students' own interpretations and illustration of contemporary topics such as the values of restoration, conservation and presentation of archaeology. The module will provide a broad yet detailed examination of Greek society and culture from Prehistoric to modern times. There will be 11 days of visits to sites and museums in Athens, Attica, Central Greece and the Peloponnese; these include the Athenian Acropolis and Agora, Delphi, Ossiou Loukas, Mycenae, Sparta, Mistras, and Olympia.

Class Hour: 9.00 - 11.00 am Thursday.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4130 The Roman Army

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module will present material for the history and archaeology of the Roman army from the Early Republic through to the Late Empire. Students will study a series of themes, including institutional development, expansion and defence of the Roman empire, the army and political culture, the army in battle, soldiers within Roman society, the archaeology of self-identity, and the Roman military economy. Source material will include historical and epigraphic texts, archaeological sites and finds, and Roman iconography. The Roman army was the first truly 'professional' standing army in European history. It permeated Roman economy and society, and has subsequently fascinated historians, soldiers, political scientists and artists up to the present.

Class Hour: 2.00 – 4.00 pm Tuesday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4132 Archaic Greece

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module deals with the origins of the Greek city state, with the period that saw the beginnings of Greek literacy and literature, of Greek cities and Greek architecture, of Greek societies and in short Greek civilisation. No contemporary history survives of the period, but it is rich in archaeological material, much of it the subject of impressive recent analysis, and a great deal of poetry survives that deals with, among other things, warfare and love, democrats and tyrants, athletics and other religion. The module is designed to allow students to explore this key period through a combination of archaeology and history and to get involved in the current arguments about why ancient Greek civilisation began the way it did.

Class Hour: 9.00 – 11.00 am Tuesday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4145 The Archaeology of Roman Britain

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will explore the Roman period in Britain through the archaeological record of towns, landscapes, military installations, cults, artworks and artifacts, combined with literary texts and sub-literary sources. Emphasis will be placed on Britain's relative place within a wider Mediterranean empire, and within an Iron Age nor European world. Topics studied will embrace the period from first Roman contacts during the 1st century BCE through the weakening of central government in the 5th Century CE. The geographical scope includes the whole of these islands, including Ireland.

Class Hour: 9.00 - 11.00 am Wednesday.

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Classics – Honours 2009/10 – August 2009

AN4146 The Supremacy of Greece: Athens and Sparta 479 - 362 BCE

Credits: 30 Semester: 1

Availability: 2009-10

Description: Between 479 and 362 BCE Athens, Sparta and later Thebes and Thessaly contested the rule of Greece through imperial expansion and ideological dominance, leading to both constant warfare as the states struggled for power, and huge progress in philosophy and the arts brought about by the force of competition. This module studies the fifth- and fourth-century empires of Athens and Sparta and their effects on the Greek world at large. The period is exceptionally rich in sources - the histories of Thucydides and Xenophon, Athenian tragedy and comedy, inscriptions, coinage and art - and the module uses these to investigate themes such as political development and dissent, the relations between Greeks and outsiders, and the expression of ideological dominance.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4147 Government and Society under Diocletian

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module considers aspects of constitutional and social history in a key period of Classical Antiquity - after the chaotic decades of the mid-third century and before the adoption of Christianity. The timescale is deliberately narrow (c.30 years) to enable detailed appreciation of the most important developments and issues. The variety of source material is wide (literary, archaeological, art-historical, legal, numismatic and documentary); this will consolidate established interpretative skills and introduce some less familiar disciplines. Students will be encouraged to marshal this range of evidence in identifying the balance between continuity and change under one of the Roman Empire's greatest leaders.

Class Hour: 9.00 - 11.00 am Wednesday.

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

AN4149 The Archaeology of Minoan Crete

Credits: 30 Semester: 1

Availability: not available 2009-10

Description: This module examines the archaeology of Minoan Crete from its beginnings to the crisis at the end of the Late Minoan I B period and rise of the Myceneans (around 3000-1000 BCE). The approach to the study of this prehistoric culture will be through a range of resources, primarily their artefacts and architecture such as frescos, pottery and religious paraphernalia as well as palatial structures, villas and tombs. Different methodologies will be called upon to reveal aspects of Minoan society such as the organisation of the Minoan states and palaces, religion and art, trade and administration and relations between Crete and neighbouring regions such as Mainland Greece and the Cyclades. Key sites include Knossos, Phaestos, Mallia, Gournia, Myrtos, Armeni, Mycenae and Thera.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 65%, 2 Hour Examination = 35%

Classical Studies (CL) Modules

CL4413 Logos, Nature, and Psyche: the Origins of Western Thought

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module will study the central ideas and cultural significance of the major thinkers from the Presocratic period of Greek thought (including the Milesians, Xenophanes, Heraclitus, Parmenides, Pythagoras, Anaxagoras, Empedocles, and Democritus). Among the concepts and issues that will receive particular attention are: the cosmos as a unified object of understanding; nature as an active system of principles and creative forces; the difference between mythical and rationalistic models of the world; competing paradigms of the physical and metaphysical foundations of reality; the status of human soul/mind, of thought, and of language; the development of human societies and of religious/political/ethical values.

Class Hour: 3.00 - 5.00 pm Tuesday

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4416 Responses to War: Civic Drama and Athenian Culture

Credits: 30 Semester: 1

Availability: 2010-11

Anti-requisite: GK4102

Description: This module will examine Athenian tragedy and comedy in the light of the fact that they were written for a city which was at war for most of the fifth century. The Athenian dramatic festivals will be contextualised in terms of the identity, duties and values of the Athenian citizen-soldier and his militarised society. The module will focus on plays by Aeschylus, Sophocles, Euripides and Aristophanes which stage and discuss the effects of war, violence and the nature of justice, military duty and heroism. Students will focus on the language, imagery and stagecraft of these plays and their relationship with earlier poetry at the same time as they set them within the Athenian context. The module will also look at the way in which twentieth century poetry and drama have returned to Greek drama in order to address the contemporary politics of warfare and violence.

Class Hour: 2.00 – 4.00 pm Friday

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4420 Fame, Tradition and Narrative: Homer's *Iliad*

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will give students the opportunity to study Homer's celebrated martial epic, the *Iliad*, in translation and in detail. It will consider the relevant social and cultural-historical questions which are prompted by this tale of heroic savagery and suffering: why might archaic Greeks have needed an epic like this? Why is the Homeric conception of the heroic so fraught with conflict and so obsessed with honour, memory and power? The module will also analyze and interpret the epic's rich poetic texture and 'oral-derived' style (formulae, similes, type-scenes...); it will explore the character of its heroes and their relationship with divinity. For all its depictions of battle and slaughter the *Iliad* is a poem about language as much as action and participants will consider the complex rhetoric of heroes who fight with words as well as swords. Finally, the module will ask how and why famous artists and poets of the modern era have returned to the *Iliad's* ideas and imagery. The module could be usefully combined with CL4416 Responses to War: Civic Drama and Athenian Culture.

Class Hour: 2.00 - 4.00 pm Friday.

Teaching: One seminar and occasional lectures

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Classics – Honours 2009/10 – August 2009

CL4421 The Ancient and Modern Novel

Credits: 30 Semester: 1

Availability: not available 2009-10

Description: The formation of the modern novel has a long (and still often unacknowledged) tradition of ancient novel-writing lying behind it. This module examines the seven surviving Greek and Latin novels of the Roman period (and their many fragmentary counterparts), with their brilliant and challenging stories of sex, magic, adventure, passion and everyday life. It looks at the emergence of the genre against the background of earlier literature, and views the novels within their social and cultural contexts. It also analyses the reception of ancient novel traditions within a wide range of post-classical contexts up to the present day (focusing mainly on modern novels, but also on film); and asks how they relate to novel-writing in the modern world.

Class Hour: 2.00 pm Friday.

Teaching: One two-hour seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4426 Geography and Travel Writing in the Ancient World

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will explore the evolution and different uses made of geography, cartography and travel writing from the poems of Homer to accounts of Christian pilgrimage in the 4th century AD. It is broadly chronological in its structure, but will tackle specific themes along the way, including the organisation of knowledge, the politics of map-making and geographical exploration, geographical and topographical responses to empire, anthropology and ethnography, and the role of fantasy and imagination in ancient travel writing. Wide-ranging in scope, it will balance general overviews with detailed examination of specific case studies, and will bring together material evidence and texts, and little-known authors and some of the canonical “classics”, in order to examine some of the ways in which Greek and Roman writers, thinkers and politicians viewed and tried to structure the worlds in which they – and others beyond their borders – lived.

Class Hour: To be arranged.

Teaching: One two-hour class.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4429 Death and Dying in Ancient Greece

Credits: 30 Semester: 2

Availability: 2009-10

Description: Two things are said to be inevitable in life: death and taxes. This module will look at the former in the context of the ancient world, an environment in which, for all the cultural achievements for which Greece and Rome are celebrated, mortality rates were, by modern standards, shockingly high. A variety of materials and approaches will be used to look at perceptions, representations and realities of death and dying in antiquity. What constitutes a heroic death, a philosophical death, a pitiable death or an untimely death? How do the varieties of deaths relate to the values of the society at large? What responses to death did the ancient Greeks devise? Was it possible to survive death, and if so, in what form? The focus will fall primarily on Greece, but Roman material will be introduced where it is appropriate, as will comparative material from other societies around the world.

Class Hour: 2.00 - 4.00 pm Friday.

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4432 Latin Literature and Roman Emperors

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module will explore the relationship between Latin literature and the Roman Principate from the late 30s BCE to the end of the first century CE. It will examine the impact which different emperors may have had upon literary production during that period, and also the ways in which different authors not only reacted to but also shaped wider responses to individual emperors and to the Principate more generally. The module will focus on three key periods of the early Principate (the ('Augustan Age', Nero's reign, and the transition from Domitian to Nerva and Trajan – with glances at Tiberius too) via four core texts (Virgil, *Aeneid* VI; Seneca, *De Clementia*; Tacitus *Annals* IV; and Pliny, *Panygyricus* 1-95), but it will also take in a range of other texts along the way. Students will thus be able to compare a variety of authors and genres, and detect patterns and developments in literary reactions to different emperors. This module aims to give students a fresh perspective on Rome's early Principate, and also to tackle some big literary issues: for example, what kind of impact can poetry or plays actually have on politics? Were authors during the Principate ever free to write what they really thought? And what roles did/does the reader play in the dialogue between authors and their rulers?

Class Hour: 9.00 – 11.00 am Friday

Teaching: One seminar.

Assessment: Continuous Assessment = 60%, 3 Hour Examination = 40%

CL4433 Religions of the Greeks

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module will examine the range of religious practice and experience in Greece primarily between ca 500 and ca 300 BCE. The civic and political roles of religion will be considered, from local heroes to panhellenic festivals, as will the role of religion in the home and in the life-cycle of the individual. Divination and healing-cults will also be discussed. Attention will be paid throughout to questions of method and interpretation, with regard both to the handling of ancient evidence and to the relative merits and demerits of the competing modern approaches. The overall aim is to attempt to understand a key element of ancient Greek mentality.

Class Hour: 2.00 – 4.00 pm Friday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4436 Alexander the Great

Credits: 30 Semester: 2

Availability: 2009-10

Description: Alexander the Great's life and career have exercised an enormous influence - both on the subsequent history of the Hellenistic and Roman worlds, and on the later imagination of artists and writers. This module will ask how much we can really know of Alexander's aims and career, through detailed examination both of the sources for his life and their literary and historiographical models. Topics will include: the origins of ruler cult, Alexander's army and the battles of his campaign, his alleged attempt to fuse east and west and other 'last plans'. The module will look, finally, at some of the modern representations of Alexander - in scholarship, film and literature.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: One seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Classics – Honours 2009/10 – August 2009

CL4441 Classical Greek Tyranny

Credits: 30 Semester: 1

Availability: 2010-11

Description: Why were ambitious and wealthy men and women able to seize power in classical Greek states? Why did so many states turn their backs on democracy in the fourth century and choose monarchic rule instead? Using the works of Plato, Aristotle, Xenophon and Diodorus, this module examines the tyrant dynasties of the classical period, and attempts to explain the political, social and economic factors that led to a resurgence of tyranny at this time. It also documents the response of Greek political thinkers to these events, and challenges traditional interpretations of the resurgence of tyranny, and its place in the history of the Greek polis.

Class Hour: 9.00 – 11.00 am Wednesday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4444 Pleasure, Goodness and Happiness: Hellenistic Ethics

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will explore the ethical thought of the Hellenistic period, a key phase in the development of Graeco-Roman culture. We shall examine some of the most sophisticated and influential moral theories of antiquity, principally those of the Epicureans, Stoics and sceptics. The core text will be Cicero's *On Moral Ends*. The module will include the following topics: the nature and value of pleasure; friendship and society; the fear of death; virtue and vice; happiness; human development; moral psychology; life without beliefs. All primary texts will be available in English translation.

Class Hour: 4.00 – 5.00 pm Tuesday, 4.00 – 5.00 pm Thursday.

Teaching: Two seminars.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4445 Women in Ancient Societies

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module studies women and gender in Greek cities, including Athens in the fifth century BCE, and in the Roman Republic and Empire from different perspectives. It will consider representations of women, for example, Homer and Virgil; the Greek tragedians; epigraphy and burial monuments; legal and forensic evidence; and medical treatises. It will look at women in the context of ancient families and city communities, marriage, children, ritual and religion and the existence or otherwise of outlets for 'individual' fulfilment.

Class Hour: 11.00 am – 1.00 pm Tuesday.

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4446 Picture this: Ecphrasis in Classical Poetry

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module will consider the development of classical ecphrasis (literary description of works of art) from Homer through to Late Antiquity. Through a series of Greek and Latin texts in translation, consideration will be given to questions of genre, narratology and literary history. Authors will include epic poets such as Homer, Apollonius, Vergil and Quintus Smyrnaeus, and others such as Hesiod, Aeschylus, Catullus and Ausonius. There will be opportunity both for close literary criticism and for broader analysis of the relationship between classical art and literature; where appropriate, visual material will feature in the course.

Class Hour: 9.00 – 11.00 am Tuesday

Teaching: One two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4447 Greek and Roman Epic

Credits: 30 Semester: 2
Availability: 2010-11
Anti-requisite: CL4401

Description: This module will explore, through close reading and comparative study, some major epics of ancient Greco-Roman culture. With a range of reference from Homer to Flavian Rome, the module will focus in particular on three works that attempt to distort, subvert and transform the 'traditional' epic form - Apollonius' *Argonautica*, Ovid's *Metamorphoses* and Statius' *Thebaid*. Examining the many critical approaches and scholarly trends that have shaped influential responses to these works, the module will also consider the changing nature of heroism, the role of gender and genre, and the historicity and cultural impact of these three very different epics.

Class Hour: 9.00 – 11.00 am Thursday
Teaching: One two-hour seminar.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4449 After Virgil: The *Aeneid* and its Reception

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module will explore, through close reading and comparative study, what made Virgil the 'Classic of all Europe' in Augustan Rome itself and in the two thousand years following the publication of the *Aeneid*. Focussing on particular 'hot spots' of Virgilian appropriation - the epics of Dante and Milton, the Early modern drama of Marlow, and selected poetry and prose of the twentieth century - this module will examine not just what makes the *Aeneid* susceptible to such a remarkable reception-history, but also what the theory and study of 'reception' can offer to a discipline of Classics and our own understanding an criticism of the ancient world.

Class Hour: 10.00 am – 1.00 pm Wednesday.
Teaching: One two-hour seminar.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

CL4452 Knowledge and the World in Hellenistic Philosophy

Credits: 30 Semester: 2
Availability: 2010-11

Description: This module will examine theories of knowledge and the natural world in Hellenistic philosophy. Is knowledge of the world possible? If so, how is it attained? What is the world - and what are we - made of, and has it - and have we - been made by intelligent design? Does the correct account of the world undermine the belief in human responsibility? The module will include the following topics: skepticism; perception; scientific method; cosmology; God; soul; fate, free will and responsibility.

Class Hour: 4.00 - 5.00 pm Tuesday and Thursday
Teaching: Two hours.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

CL4453 Greek and Roman Science

Credits: 30 Semester: 1
Availability: 2010-11

Description: Was ancient science really science? When did ideas we take for granted, such as the sphericity of the earth, become generally accepted? When did the divide between scientific and non-scientific modes of thought, or between 'science' and 'humanities', become current? This module will attempt to answer these and other questions, by looking in detail at some of the key sources in Greek and Roman 'scientific' writing. The chronological ambit of the module will stretch from the pre-socratic philosophers in Greece, up to the Renaissance reception of the ancient ideas and techniques.

Class Hour: 11.00 am - 1.00 pm Friday
Teaching: Two hours.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

Classics – Honours 2009/10 – August 2009

CL4996 Dissertation (non-graduating)

Credits: 60 Semester: Either or Both

Anti-requisite: CL4997

Description: This module is for incoming Exchange and non-graduating students who spend all or part of their time in St Andrews working on dissertations which they will submit in their home university. Such students will receive supervision during their time in St Andrews and may be required to submit samples of written work for informal assessment, but there is no formal assessment in St Andrews.

Assessment: No formal assessment.

CL4997 Dissertation (non-graduating)

Credits: 30 Semester: Either

Anti-requisite: CL4996

Description: This module is for incoming Exchange and non-graduating students who spend all or part of their time in St Andrews working on dissertations which they will submit in their home university. Such students will receive supervision during their time in St Andrews and may be required to submit samples of written work for informal assessment, but there is no formal assessment in St Andrews.

Assessment: No formal assessment.

CL4998 Dissertation (Long) in Classical Studies

Credits: 60 Semester: Either or Both

Anti-requisites: CL4999, CL4997, CL4996, AN4999, LT4999, GK4999, GK4998

Description: This module is available only to students who take it while studying at another university on an approved exchange programme. It provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of the classical world, but the topic must be approved by the Head of School. The dissertation will either be completed within one semester or spread over two semesters. The maximum length is 15,000 words, exclusive of quoted materials, appendices and bibliography, or 20,000 including them. Dissertations must be submitted no later than the last day of revision week for the semester.

Assessment: Dissertation = 100%

CL4999 Dissertation (Short) in Ancient History, Ancient History & Archaeology, or Classical Studies

Credits: 30 Semester: Either

Availability: Available only to students in the second year of the Honours Programme.

Anti-requisite: CL4998, CL4997, CL4996, AN4999, LT4999, GK4999, GK4998

Description: This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of the classical world, including ancient history, and/or ancient archaeology, but the topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.

Assessment: Dissertation = 100%

Greek (GK) Modules

GK3021 Greek for Honours Classics 1: Special Option

Credits: 30 Semester: 1

Prerequisites: Pass at grade 11 or better in GK1002 and in LT2004

Anti-requisite: GK2003

Description: This module is for students who, having taken Latin in both of their first two years, but only begun Greek in their second year with GK1001 and GK 1002, are entering Honours Classics in their third year. It consists of 4000-level analysis and essay work together with consolidation of the student's prior knowledge of the Greek language, practice in translation skills, and training in techniques of literary analysis. The module will concentrate on the study of narrative poetry (e.g. Homer) and prose dialogue (e.g. Lucian) and will aim to foster an awareness of the interrelationships between later and earlier periods of Greek.

Class Hour: 10.00 - 11.00 am 3 days a week (Tues – Fri).

Teaching: Three or four classes.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

GK3022 Greek for Honours Classics 2: Special Option

Credits: 30 Semester: 2

Prerequisites: Pass at grade 11 or better in GK1002 and permission to take Honours in Classics

Anti-requisite: GK2004

Description: This module is for students who, having taken Latin in both of their first two years, but only begun Greek in their second year with GK1001 and GK 1002, are entering Honours Classics in their third year. It consists of 4000-level analysis and essay work together with consolidation of the student's prior knowledge of the Greek language, practice in translation skills, and training in techniques of literary analysis. The module will concentrate on the study of pastoral poetry (e.g. Theocritus) and erotic fiction (e.g. Longus) and aims to foster an awareness of the ways in which Greek poetry and prose can share language, strategy and themes. It will focus particularly on the Greek literary inheritance and manipulation of bucolic commonplaces and discourses of desire.

Class Hour: 10.00 - 11.00 am 3 days a week (Tues – Fri).

Teaching: Three or four classes.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GK4100 Greek Prose Composition

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will deal with the different ways in which students may make use of their knowledge of Greek in order to produce both translations from English texts into grammatically correct Greek and also free compositions directly in Greek. This will involve a more active process of language learning than is required for translation from Greek into English, though it will also have benefits for the reading of original texts. The content of the module will deal with all syntactical aspects of the Greek language that need special study for effective translation into Greek: particles, participles, the treatment of abstract nouns, equivalence between English and Greek idioms, etc.

Class Hour: 11.00 am – 1.00 pm Wednesday, 12.00 noon - 1.00 pm Friday.

Teaching: Two seminars.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

Classics – Honours 2009/10 – August 2009

GK4102 Greek Tragedy

Credits: 30 Semester: 2

Availability: 2009-10

Anti-requisite: CL4402, CL4416

Description: This module increases the student's familiarity with Greek tragedy. Plays of Aeschylus, Sophocles and Euripides are prescribed for detailed study, and students learn to address questions of content, context and staging in prepared texts, to translate passages from unprepared texts, and to address wider dramatic and generic issues.

Class Hour: 12 noon – 1.00 pm Wednesday, 2.00 – 3.00 pm Friday.

Teaching: One seminar and one tutorial/lecture.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4103 Greek Comedy

Credits: 30 Semester: 1

Availability: not available 2009-10

Description: This module explores the nature and development of Greek comedy from Aristophanes to Menander. A range of literary, dramatic and theatrical issues will be discussed, as well as the relationship of comedy's themes to the patterns of Athenian society and culture. Students will learn to interpret aspects of comic technique and details of language and metre, to translate unprepared texts, and to tackle larger questions of dramatic structure and characterisation. Students will also acquire an understanding of the historical evolution of a major poetic genre. Set texts will include one complete play each of Aristophanes and Menander, as well as parts of several other works by both playwrights.

Class Hour: To be arranged.

Teaching: One seminar and one tutorial/lecture.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4105 Greek Rhetoric and its Representation

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module gives students the opportunity to translate and perform detailed critical analysis of Greek prose texts of the classical period which are concerned with the nature, development and representation of rhetoric and sophistry. It also requires students to address broader questions concerning Athenian culture's social, moral and political response to the development of an 'art' of persuasion.

Class Hour: 2.00 - 3.00 pm Tuesday and Friday.

Teaching: One seminar and one tutorial/lecture.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4109 Greek Literature in the Roman Empire

Credits: 30 Semester: 2

Availability: 2009-10

Description: The first to third centuries AD was one of the most fertile periods of Greek literary production (and has been an exciting growth area of recent scholarship). This module samples a range of genres, paying particular attention to detailed appreciation of specific works: the speeches and novelistic dialogues of the controversial and colourful orator/philosopher Dio Chrysostom; the irreverent satirical and comical writing of Lucian; and the works of Philostratus, who offers us such a vivid portrait of his own contemporary culture through his biographical writing. It also addresses a range of broader questions: how far are these texts influenced by their social and political context, especially by the continuing Roman rule over the Greek east? What relation do they have with classical literary traditions which they draw on and transform in such original ways? And how are we to account for the extraordinary denigration of this period's literature within so much of the scholarship of the nineteenth and early-twentieth centuries?

Class Hour: 12.00 noon Tuesday and 12.00 noon Thursday

Teaching: One seminar and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4110 Imagining the Symposium

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module will explore the symposium, a key cultural institution of the ancient Greek world, through its representation and dramatisation in both poetry and prose. The texts studied, which were produced for performance at symposia and/or designed to evoke the mentality and preoccupations (alcoholic, erotic, political, religious, and cultural) associated with sympotic gatherings, will range from the lyric and elegiac poetry of the archaic period, via the two ‘Socratic’ *Symposia* of Plato and Xenophon in the fourth century, to the continued thematisation of the symposium in Hellenistic epigrams. The module will also make some supplementary use of pictorial evidence for the history of the symposium, paying comparative attention to the roles of poetic and visual material within symposiac culture.

Class Hour: 12 noon - 1.00 pm Tuesday and Thursday

Teaching: One seminar and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4113 Greeks and Others: Ethnography and Identity in ancient Greek Literature

Credits: 30 Semester: 1

Availability: 2010-11

Description: Exploring Greek identity through representation of non-Greeks was a prominent preoccupation of Greek literature and culture across many centuries. This module is focused around close reading of a set of key ethnographic texts: Herodotus, *Histories* and Philostratus, *Life of Apollonius of Tyana* in prose, and a selection of extracts from Homer, Greek tragedy and Hellenistic poetry in verse. In the process it also addresses wider questions about conceptions of Greek identity from the archaic world through to the early third century CE.

Class Hour: 2.00 – 3.00 pm Tuesday and Thursday

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4115 Epiphanic Gods: Text and Context in the Homeric Hymns

Credits: 30 Semester: 1

Description: A collection of thirty-three fascinating poems in dactylic hexameters has come down to us from antiquity under the title "The Hymns of Homer". The present module sets out to explore the narrative, performative and cultural context of five of the most extensive poems: namely the Hymn to Apollo, the Hymn to Hermes, the Hymns to Aphrodite and Demeter, and finally, what survives from the more extensive Homeric Hymn to Dionysus. In particular, we will focus on the divine epiphany as an integral part of the hymnic narrative. We will discuss, in wide-ranging literary and cultural terms, the means by which the deities reveal themselves to mortal men, the spatiotemporal context in which this takes place, as well as the quantity and the quality of the mortal-immortal interaction.

Class Hour: 2.00 - 4.00 pm.

Teaching: Two hours.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

GK4998 Dissertation in Greek (Long)

Credits: 60 Semester: Either or Both

Availability: Available only to students in single-Honours Greek

Anti-requisites : CL4999, CL4998, CL4997, CL4996, AN4999, LT4999, GK4999

Description: This module provides the opportunity for students in Single Honours Greek to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Greek life or literature, provided that the study of Greek texts is involved. The topic must be approved by the Head of School. The dissertation will be completed over one or two semesters, and the maximum length is 15,000 words, exclusive of quoted material, appendices and bibliography, or 20,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.

Assessment: Dissertation = 100%

Classics – Honours 2009/10 – August 2009

GK4999 Dissertation in Greek

Credits: 30 Semester: Either
Availability: Available only to students in the second year of the Honours Programme.
Anti-requisites: CL4999, CL4998, CL4997, CK4996, AN4999, GK4998, LT4999

Description: This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Greek life or literature, provided that the study of Greek texts is involved. The topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.

Assessment: Dissertation = 100%

Latin (LT) Modules

LT3017 Latin for Honours Classics 1

Credits: 30 Semester: 1
Prerequisites: passes at grade 11 or better in LT1002 and in GK2004 along with permission to take Honours in Classics

Anti-requisite: LT2003

Description: This module is for students who, having taken Greek in both of their first two years, but only begun Latin in their second year with LT1001 and LT1002, are entering Honours Classics in their third year. It consists of one third of one of the 30 credit LT 4000–level modules available in the first semester together with consolidation of the student's prior knowledge of the Latin language, practice in translation skills, and training in the techniques of literary analysis.

Class Hour: 2.00 – 3.00 pm Tuesday, Thursday and Friday

Teaching: Three meetings per week.

Assessment: Continuous Assessment = 67%, 2 Hour Examination = 33%

LT3018 Latin for Honours Classics 2

Credits: 30 Semester: 2

Prerequisites: LT3017

Anti-requisite: LT2004

Description: This module is the second-semester complement to LT3017 Latin for Honours Classics I (see above). It consists of one third of one of the 30 credit LT 4000–level modules available in the second semester or the equivalent together with further consolidation of the student's knowledge of the Latin language, practice in translation skills, and training in the techniques of literary analysis.

Class Hour: 2.00 - 3.00 pm Tuesday, Thursday and Friday

Teaching: Three meetings per week.

Assessment: Continuous Assessment = 67%, 2 Hour Examination = 33%

LT4201 Roman Epic

Credits: 30 Semester: 1

Availability: 2010-11

Description: Selected portions from three Latin epics are studied in this module. Topics covered will include the influence of Greek epic upon the Latin writers, and the development of epic in the century after Virgil. Close attention will be paid to each poet's handling of themes and narrative structure, to his exploitation of the tradition, and to his style.

Class Hour: 11.00 am – 12 noon Tuesday and Thursday

Teaching: Two meetings per week.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4208 Late Latin

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module aims to give an introduction to some of the most important Latin texts from the Late Roman Empire in the West. Selected literary works, of a variety of genres, will be read in Latin, along with a wider corpus read in translation.

Class Hour: 11.00 am - 12.00 noon Wednesday and Friday Teaching: Two hour seminar.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4209 Latin Historical Writing

Credits: 30 Semester: 2

Availability: 2010-11

Anti-requisite: CL4405

Description: This module studies the origins and development of Roman historical writing from the beginnings to the early second century AD. Selected works of Roman historians, and writings about historiography, will be read in Latin. The sources of Roman knowledge of the past, and the influence of Greek historical writing, will be studied, as well as the development of the Roman historiographical tradition, and the styles and techniques of individual writers.

Class Hour: 11.00 am - 12.00 noon Tuesday and Thursday.

Teaching: Two meetings per week, lectures or seminars.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4210 Latin Didactic Poetry

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module examines the development of one of the major genres of Classical Latin poetry during the late Republic and early Empire, with due consideration of the Hellenistic and archaic Greek background. Three books will be studied with particular attention to their literary form and background, to the didactic poet's message, and to his self-presentation as an authority and teacher.

Class Hour: 11.00 am - 12.00 noon Tuesday and Thursday.

Teaching: Two meetings per week.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4211 Latin Letters

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module studies the genre of epistolography through the selected letters of the three Latin writers Cicero, Seneca and Pliny. The aims, methods, style and subject-matter of each writer will be studied and compared, as will their different personal, political and cultural backgrounds. Letters from other authors and periods will be used for comparative purposes.

Class Hour: 11.00 am Tuesday and 11.00 am Thursday.

Teaching: Two meetings per week.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

Classics – Honours 2009/10 – August 2009

LT4213 Roman Satire

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module explores the emergence and evolution of Roman Satire. Its core texts are selected *Satires* by Horace, Persius and Juvenal, but it also examines the beginnings of Roman Satire in the second century BCE, and takes in other, later Roman satirists along the way. Close reading of the primary texts forms a key component of the module, but we also home in on some of the recurring themes of Roman satire so that students can compare the approaches of different authors and analyse the development of the genre over time. Broader issues are also tackled, such as the purpose of satire (was it always moralistic?) and the relationship between satirical writing and society.

Class Hour: 10.00 am - 12.00 noon Friday.

Teaching: Two hours per week

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4214 Latin Philosophical Writing

Credits: 30 Semester: 2

Availability: 2010-11

Description: This module will explore a tradition of philosophy which has often been considered 'secondary' or 'derivative', namely the writing of philosophical works in Latin. This module aims to evaluate Latin philosophical writing in its own right. Taken as a whole, the Latin philosophical corpus present an impressive record of cultural assimilation and innovation. We shall see how, from the Late Republic onwards, Roman philosophy engages with debates current in the Hellenistic philosophical schools, Romanising them in the process, and placing them in the context of world order under the Roman empire.

Class Hour: 9.00 – 11.00 am Wednesday

Teaching: Two hours per week.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4215 Senecan Tragedy

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module will explore in Latin and translation a selection of Senecan Tragedy, the 'dark side' of Seneca the Younger's literary output. It will focus in particular on three classic 'anti-heroes'; the Atreus of Seneca's *Thyestes*, the eponymous *Medea*, and the tyrannical Nero of the pseudo-Senecan *Octavia*. The module will examine the influence of Greek and Roman tragic and epic antecedents, set the 'nefarious' poetics of Senecan drama in and against the context of Seneca's philosophical writings, and consider the political resonances of this Neronian literature. Through study of the *Octavia*, we will explore the cultural impact of Seneca's tragedies and examine the potent 'afterlife' of Senecan drama in revenge tragedy more generally.

Class Hour: 11.00 am – 1.00 pm Wednesday

Teaching: Two hours per week.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

LT4999 Latin Dissertation

Credits: 30 Semester: Either

Prerequisite: Available only to students in second year of the Honours Programme.

Anti-requisites: CL4999, CL4998, CL4997, CL4996, AN4999, GK4999, GK4998

Description: This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Roman life or literature, provided that the study of Latin texts is involved. The topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.

Assessment: Dissertation = 100%

School of Computer Science

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad. From 2009/10, the School will participate in ID4001 (Communication and Teaching in Science). This may be taken by Single Honours Computer Science/Internet Computer Science students as an alternative to level 3/level 4 option credits, as shown below.

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Computer Science	<p>Single Honours Computer Science (B.Sc. Honours):</p> <p>Level 1: At least 40 credits consisting of CS1002, CS1004 and (either CS1010 or appropriate mathematics background)</p> <p>Level 2: 60 credits consisting of passes in both CS2001 and CS2002, at grade 11 or better except with the Head of School's permission</p> <p>Level 3: Normally in the Junior Honours year, 120 credits, consisting of:</p> <ul style="list-style-type: none"> - 30 credits from CS3001–CS3099 - 60 credits from CS3101–CS3199 - 30 credits from CS3201–CS3299 <p>Level 4: Normally in the Senior Honours year, 120 credits, consisting of:</p> <ul style="list-style-type: none"> - 45 credits from CS4001–CS4099 - 45 (or more) credits from CS4101–CS4199 and CS4201–CS4299, including 30 (or more) credits from CS4201–CS4299 - remaining credits from CS3001–CS4999, ID4001

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Computer Science and one of Economics, Logic & Philosophy of Science, Management Science, Management Science, Mathematics, Physics or Statistics</p>	<p>Computer Science element of Joint Degree (B.Sc. Honours):</p> <p>Level 1: At least 40 credits consisting of CS1002, CS1004 and (either CS1010 or appropriate mathematics background)</p> <p>Level 2: 60 credits consisting of passes in both CS2001 and CS2002, at grade 11 or better except with the Head of School's permission</p> <p>Level 3: Normally in the Junior Honours year, 60 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 credits from CS3099 - 45 credits from CS3051, CS3101–CS3199 and CS3201–CS3299, including 15 (or more) credits from CS3201–CS3299 <p>Level 4: Normally in the Senior Honours year, 60 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 (or more) credits from CS4076–CS4099 - 30 (or more) credits from CS4101–CS4199, CS4201–CS4299, including 15 (or more) credits from CS4201–CS4299 - remaining credits from CS3001–CS4999
<p>(B.Sc. Honours): Computer Science and Psychology</p>	<p>Computer Science element of Joint Degree (B.Sc. Honours):</p> <p>Level 1: At least 40 credits consisting of CS1002, CS1004 and (either CS1010 or appropriate mathematics background)</p> <p>Level 2: 60 credits consisting of passes in both CS2001 and CS2002, at grade 11 or better except with the Head of School's permission</p> <p>Level 3: Normally in the Junior Honours year, 45 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 credits from CS3051 – CS3099 - 30 credits from CS3101 – CS3299 <p>Level 4: Normally in the Senior Honours year, 45 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 credits from CS4076–CS4099 - 30 credits from CS4051 and CS4101–CS4499 <p>Note: The total Honours credits in Computer Science and in Psychology must equal or exceed 240.</p>
<p>(B.Sc. Honours): Computer Science with French[^], [^] - available also as 'With Integrated Year Abroad Degree'</p> <p>*This programme is only available to those already enrolled in it.</p> <p>Not available to entrants from 2008-09</p>	<p>Computer Science element of Major degree with Modern Languages:</p> <p>Level 1: At least 40 credits consisting of CS1002, CS1004 and (either CS1010 or appropriate mathematics background)</p> <p>Level 2: 60 credits consisting of passes in both CS2001 and CS2002, at grade 11 or better except with the Head of School's permission</p> <p>Level 3: Normally in the Junior Honours year, 90 credits, consisting of:</p> <ul style="list-style-type: none"> - 30 credits from CS3001–CS3099 - 30 or 45 credits from CS3101–CS3199 - remaining credits from CS3201–CS3299 <p>Level 4: Normally in the Senior Honours year, 90 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 (or more) credits from CS4076–CS4099 - 45 (or more) credits from CS4101–CS4199 and CS4201–CS4299, including 15 (or more) credits from CS4201–CS4299 - remaining credits from CS3001–CS4999

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Internet Computer Science</p>	<p>Single Honours Internet Computer Science B.Sc. Degree:</p> <p>Level 1: At least 40 credits consisting of CS1002, CS1004 and (either CS1010 or appropriate mathematics background)</p> <p>Level 2: 60 credits consisting of passes in both CS2001 and CS2003, at grade 11 or better except with the Head of School's permission</p> <p>Level 3: Normally in the Junior Honours year, 120 credits, consisting of:</p> <ul style="list-style-type: none"> - 30 credits from CS3001–CS3099 - 60 credits from CS3101–CS3199 - 30 credits from CS3301–CS3399 <p>Level 4: Normally in the Senior Honours year, 120 credits, consisting of:</p> <ul style="list-style-type: none"> - 45 credits from CS4001–CS4099 - 45 (or more) credits from CS4101–CS4199 and CS4301–CS4399, including 30 (or more) credits from CS4301–CS4399 - remaining credits from CS3001–CS4999, ID4001
<p>(B.Sc. Honours): Internet Computer Science and one of Economics, Logic & Philosophy of Science, Management, Management Science, Mathematics, Physics or Statistics</p>	<p>Internet Computer Science element of Joint Honours B.Sc. Degrees:</p> <p>Level 1: At least 40 credits consisting of CS1002, CS1004 and (either CS1010 or appropriate mathematics background)</p> <p>Level 2: 60 credits consisting of passes in both CS2001 and CS2003, at grade 11 or better except with the Head of School's permission</p> <p>Level 3: Normally in the Junior Honours year, 60 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 credits from CS3099 - 45 credits from CS3051, CS3101–CS3199 and CS3301–CS3399, including 15 (or more) credits from CS3301–CS3399 <p>Level 4: Normally in the Senior Honours year, 60 credits, consisting of:</p> <ul style="list-style-type: none"> - 15 (or more) credits from CS4076–CS4099 - 30 (or more) credits from CS4101–CS4199, CS4301–CS4399, including 15 (or more) credits from CS4301–CS4399 - remaining credits from CS3001–CS4999

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which it is specified, as well as any additional specific prerequisite(s) given.

General Degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

Computer Science (CS) Modules

CS3051 Software Engineering

Credits: 15 Semester: 1

Prerequisites: CS2001 and (CS2002 or CS2003)

Description: This module introduces software engineering through lectures, associated practical work, seminar reports and essays. We define software engineering and consider those attributes of software which distinguish a well-engineered system from a badly-engineered system, concentrating on the differences between large systems and small ones, and introduce some concepts of software design and good programming practice. We will concentrate in particular on object-oriented techniques and Java programming.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3099 Software Team Project

Credits: 15 Semester: Whole Year

Availability: Not available to General Degree Students

Prerequisites: CS2001 and (CS2002 or CS2003)

Description: This module aims to allow students to take part in a substantial software engineering project as part of a team, using professional development techniques. Each team will specify, plan, design, implement and document a medium-sized software system under the guidance of a member of staff. Teams are required to cooperate in order to produce successful solutions. Typically, the software system will simulate a real world problem, proposed by the module co-ordinator acting as a customer.

Class Hour: To be arranged.

Teaching: Weekly seminars and practical classes.

Assessment: Continuous Assessment = 100%

CS3101 Databases

Credits: 15 Semester: 1

Prerequisites: CS2001 and (CS2002 or CS2003)

Description: This module aims (i) to study data models, indexing techniques and query processing; (ii) to study database systems including concurrency, transactions, distribution and recovery. The syllabus includes: data models; indexing, hashing and query processing; concurrency, transactions and recovery; security and integrity.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3102 Data Communications and Networks

Credits: 15 Semester: 2
Prerequisites: CS2001 and (CS2002 or CS2003)

Description: This module aims (i) to introduce the basics of data communications and computer networks, and (ii) to examine network protocols and architectures. The syllabus includes: the concepts of protocols, layered models, resource sharing and standards; transmission media; analog and digital data encoding; reliable communication; error detection and correction; flow control; link-level efficiency and sliding window protocols; medium access control policies and mechanisms; LAN topologies and extended LANS; network topologies, internetworks and network routing; connection-oriented and connectionless networks; transport level protocols; congestion control; QoS for different traffic types; Study of particular networks and protocols such as the traditional telephone network; the Internet; WiFi, FDDI, Ethernet, ISDN, TCP/IP, ATM. Network programming APIs such as sockets.

Class Hour: To be arranged.
Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3103 Graphs and Algorithms

Credits: 15 Semester: 1
Prerequisites: CS2001 and (CS2002 or CS2003)

Description: This module introduces selected concepts and results of graph theory, from both a theoretical and an algorithmic viewpoint, with a particular emphasis on applications to computer networks. Other theoretical topics relevant to computer networks, such as queuing theory, may also be covered. Using, where appropriate, graph theoretic problems as examples, the module will also teach a range of algorithm design paradigms, such as "divide and conquer" and "dynamic programming".

Class Hour: To be arranged.
Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3104 Operating Systems

Credits: 15 Semester: 2
Prerequisites: CS2001 and (CS2002 or CS2003)

Description: This module aims (i) to examine in depth the changing role of the operating system; (ii) to study the concept and implementation of *process*; (iii) to study the OS/hardware interface with regard to storage and protection; (iv) to study the techniques developed to achieve safety and throughput in a multitasking system. The syllabus includes: structured computer organisation; process definition and implementation; interprocess communication and synchronisation; review of scheduling; review of file systems; storage management.

Class Hour: To be arranged.
Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3201 Machines and Computation

Credits: 15 Semester: 1
Prerequisites: CS2001 and CS2002

Description: This module aims to give an understanding of the foundations of computation including the basic issues in language recognition, with applications in areas such as compiler design, and to introduce general models of computation (Turing machines and others) which illustrate the limits of the power of computers.

Class Hour: To be arranged.
Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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CS3202 Logic, Specification and Verification

Credits: 15 Semester: 2

Prerequisites: CS2001 and CS2002

Description: Building on earlier coverage of elementary logic, this module covers the topics of formal proof (including induction), software and hardware specification, validation and verification. A tool such as PVS or Coq will be employed in practical work.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3301 Component Technology

Credits: 15 Semester: 2

Prerequisites: CS2001 and CS2003

Description: The module will provide students with a knowledge and understanding of current and emerging component technologies. The module is focused on two major themes: Object-Oriented Middleware (OOM) and Message-Oriented Middleware (MOM). In the first theme we examine the evolution of object-oriented programming into (distributed) component models such as The Common Object Request Broker Architecture (CORBA), The Component Object Model (COM), Java Remote Method Invocation (RMI) and Java Beans. The common underlying requirements of these systems will be studied in detail such as naming and binding issues and marshalling and un-marshalling of data. The second theme will explore the emerging field of Message-Oriented Middleware with an in-depth study into current MOM technologies such as Java Messaging System (JMS).

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS3302 Data Encoding

Credits: 15 Semester: 1

Prerequisites: CS2001 and CS2003

Description: This module aims to explain the techniques used to encode data, emphasising in turn the ideas of: security and secrecy, error correcting capabilities, data compression. The syllabus comprises: the weakness of early encryption schemes, the Data Encryption Standard, public key schemes including RSA; attacks on RSA by integer factorisation; Hamming distance, linear codes, parity check equations; Hamming codes, BCH codes; information and uncertainty, run encoding, Huffman encoding.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4051 Professional and Social Aspects of Computing

Credits: 15 Semester: Whole Year

Prerequisite: CS3099

Description: This module aims: (i) to enable students to gain a broad general knowledge of some current research areas in computer science and their application in industry and commerce, and the non-technical factors which may affect decision-making in these areas; (ii) to make students aware of the social implications and ethical problems which may face the users and builders of computer systems; (iii) to develop skills in collecting and communicating information, managing and leading debate and drawing conclusions. It will consist of three parts: (i) a series of seminars will be given and students will be required to write short reports on a certain number of these and take part in a follow-up discussion; (ii) students will be required to write an essay on a current technological, business or social issue in computer science; (iii) students will be required to give an individual or team presentation on a social or professional issue in Computer Science, and lead and manage a follow-up discussion.

Teaching: Individual supervision

Assessment: Continuous Assessment = 100%

CS4098 Minor Software Project

Credits: 15 Semester: Whole Year

Prerequisite: CS3099

Anti-requisite: CS4099

Description: This module aims to allow students to undertake a substantial software engineering project using professional development techniques. Each student will design, specify and construct a medium-sized software system or undertake a formal development and proof of such a system under the guidance of a member of staff. The syllabus is designed on an individual basis.

Teaching: Individual supervision

Assessment: Continuous Assessment = 100%

CS4099 Major Software Project

Credits: 30.0 Semester: Whole Year

Prerequisite: CS3099

Anti-requisite: CS4098

Description: This module aims to allow students to undertake a substantial software engineering project using professional development techniques. Each student will design, specify and construct a medium-sized software system or undertake a formal development and proof of such a system under the guidance of a member of staff. The syllabus is designed on an individual basis.

Teaching: Individual supervision.

Assessment: Continuous Assessment = 100%

CS4101 Artificial Intelligence

Credits: 15 Semester: 2

Prerequisite: CS3099

Description: This module aims to provide understanding of the general features of the A.I. problem solving process, and in particular to explain the various forms of heuristic together with their implementation and case studies of real systems. The syllabus includes aspects of action and planning, learning, reasoning.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4102 Computer Graphics

Credits: 15 Semester: 1

Prerequisite: CS3099

Description: The aims of the module are to provide understanding of the fundamental concepts of computer graphics and to develop the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques. The syllabus includes: 2D graphics: Display technology, perception & colours, basic drawing algorithms, image manipulation; 3D graphics: Coordinate transformation and perspective geometry, hidden surface removal, lighting using local and global illumination models (ray-tracing and radiosity), surface detail (texture and bump mapping), 3D engine overview; Animation: Procedural, spline motion + rotations, articulated models & particle systems, face animation.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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CS4103 Distributed Systems

Credits: 15 Semester: 2

Prerequisites: CS3099 and CS3102

Description: This module aims to help students to understand the fundamentals of distributed systems with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. The syllabus covers synchronisation & mutex problems, atomic transactions, topologies, CSP, Internet programming and distributed computing, distributed mutex and logical time & causality.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4104 Human Computer Interaction

Credits: 15 Semester: 1

Prerequisites: CS3099 and CS3051

Description: This module covers the main aspects of Human Computer interaction. Design guidelines, structured design methods and standards are studied and practice is given in implementation and evaluation. Students will have experience of current interactive audio, visual and manipulative technologies.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4201 Programming Language Design and Implementation

Credits: 15 Semester: 1

Prerequisites: CS3099 and CS2002

Description: This module aims to study the design and implementation of programming languages. The syllabus includes: language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4202 Computer Architecture

Credits: 15 Semester: 2

Prerequisites: CS3099, CS3104 and CS2002

Description: This module aims to study the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. The syllabus consists of: (i) the CPU: pipelined, superscalar, multiprocessor and supercomputer architectures, coprocessors and ASICs, microprogramming; (ii) memory: instruction and data caches; (iii) interconnect architectures: topologies, buses; (iv) performance concepts: latency, bandwidth and analysis; (v) programming models: RISC, CISC, virtual addressing, high-level language support, multiprogramming and multiprocessor consistency; (vi) case studies.

Class Hour: To be arranged.

Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4203 Computer Security

Credits: 15 Semester: 2
Prerequisites: CS3099 and (CS2002 or CS3302)

Description: This module aims to introduce the basic concepts of computer security and cryptography, including common attacks and defences against them, and the legal and policy framework. The syllabus includes: What is security, security applications and policy models. Introduction to access control, typical vulnerabilities. Unix and Internet security, firewalls. intrusion detection, malicious code and countermeasures. Information hiding, Stream ciphers, Block ciphers, Symmetric cryptographic protocols, Asymmetric cryptosystems, Asymmetric cryptographic protocols, Digital signatures, Public key infrastructures, Certification authorities. Security engineering, risk models, robustness, legal and organisational aspects of computer security. Data Protection Act, the Computer Misuse Act, international aspects, export control and key escrow.

Class Hour: To be arranged.
Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4302 Multimedia

Credits: 15 Semester: 1
Prerequisites: CS3099 and CS3102

Description: The module will introduce students to the concepts of analogue and digital media and review current standards and technologies used in the production, transport and rendering of digital multimedia. Within the context of networked multimedia the concept of Quality-of-Service will be introduced and the issues involved in transporting time-sensitive data across computer networks will be explained. Specific examples drawn from Internet-based projects, protocols and standards will be used to illustrate these issues.

Class Hour: To be arranged.
Teaching: Two lectures, fortnightly tutorial, two-and-a-half hour practical.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4402 Constraint Programming

Credits: 15 Semester: 2
Availability: TBA
Prerequisites: CS3099

Description: This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimization problem (CSP/COP) formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver.

Class Hour: To be arranged.
Teaching: Two lectures, and fortnightly tutorial
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

CS4499 Computer Science (Special Subject)

Credits: 15 Semester: Either
Prerequisites: Entry to the Single Honours Computer Science or Internet Computer Science Honours programme and the consent of the Head of School

Anti-requisite: CS3045
Description: This module is a guided reading module on any aspect of Computer Science not covered by other available modules, intended only for Single Honours students in the School of Computer Science for whom exceptional timetable arrangements (such as a semester or year of absence) restrict the availability of modules unduly.

Class Hour: To be arranged.
Teaching: Tutorials, guided reading, essays, presentations and supervised practicals.
Assessment: Continuous Assessment = 100%

InterDisciplinary (ID) Modules

ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

School of Divinity

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.D. Honours

The B.D. Honours programme is a fast-track 3-year Honours degree open only to those who are already university graduates in another discipline. B.D. Honours degree students must accumulate a total of 390 credits normally over a period of three years, of which 150 credits will be in Honours modules (also referred to as 3000-level or 4000-level modules). Refer to programme specification and degree regulations for details.

M.Theol. Honours

In addition to the specific requirements listed below, the following general conditions must also be met in order to graduate with an Honours degree. All M.Theol. Honours degree students must accumulate a total of 480 credits over a period of normally four and no more than five years. The Honours Programme will normally involve the study of modules worth at least 240 credits gained during the 3rd and 4th years, of which at least 210 will be in Honours modules (also referred to as 3000 or 4000 or level modules) and at least 120 credits of which must be at 4000 level in Divinity. Refer to Faculty of Divinity regulations for subjects qualifying towards an M.Theol. degree.

M.Theol. General

In addition to the specific requirements listed below, the following general conditions must also be met in order to graduate with a General M.Theol. degree. General M.Theol. degree students must accumulate a total of 360 credits over a minimum period of three years and no more than four years, or the equivalent period of part-time study, of which at least 80 are in Second Level modules (also referred to as 2000 level) and at least 60 are in Third level modules (also referred to as 3000 level) in Divinity. Refer to programme specifications and degree regulations for further details.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours): Biblical Studies	<p>Single Honours Biblical Studies Degree:</p> <p>Level 1: 40 credits comprising DI1003 and DI1006</p> <p>Level 2: 40 credits comprising passes at 11 or better in both DI2001 and DI2003.</p> <p>Level 3: 30 credits comprising DI3601</p> <p>Level 4: At least 180 credits of which (a) 30 credits must be either DI4501 or DI4502; and (b) 120 credits must be in modules chosen from DI4600 - DI4799, save that with the permission of the Head of School, 30 of the 150 credits may be taken in a 4000-level module or modules offered by another School.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Biblical Studies and Ancient History, Art History, Classical Studies~, Economics, English, Film Studies, French^, German^, Greek, Hebrew, International Relations, Mathematics, Philosophy. ^ available also as 'With Integrated Year Abroad Degrees' ~ Timetable clash exists therefore this combination is subject to arrangement between the two departments</p>	<p>Biblical Studies element of Joint Honours Degrees: Level 1: 40 credits comprising DI1003 and DI1006 Level 2: 40 credits comprising passes at 11 or better in both DI2001 and DI2003. Level 3: 30 credits from DI3601. Level 4: At least 60 credits of which (a) 30 credits must be either DI4501 or DI4502 unless a 4000-level dissertation is taken in the other Honours subject of the Joint Honours programme; and (b) at least 30 credits must be in modules chosen from DI4600 - DI4799. A total of 120 credits must be taken in 3000-level and 4000-level modules in Divinity. Students must ensure that their Joint Honours programme results in at least 90 credits at 4000-level.</p>
<p>(B.D. Honours): Divinity</p>	<p>Single Honours Divinity Degree: Level 1: 80 credits comprising DI1001, DI1002, DI1003, DI1006. Level 2: At least 80 credits of which: (a) 60 credits must be from DI2001, DI2003, DI2004, DI2005, DI2006 with a pass at Grade 11 or better in two of these modules; and (b) at least 20 credits must be from either a fourth module listed in (a) above or from one of the following: DI2002, DI2007, MO2001, PY2003, PY2004, PY2001 plus PY2002, PH2101 plus PH2102 or any other 2000-level module in a cognate subject-area chosen with the permission of the Head of School. Level 3: At least 30 credits comprising DI3601 or DI3602. Level 4: At least 90 credits in Divinity modules, to include (a) either DI4501 or DI4502, and (b) at least a further 60 credits in 4000-level modules in Divinity.</p>
<p>(M.A. Honours): Hebrew and Arabic, Art History, Biblical Studies, English, French^, Geography, Greek, Latin, Mathematics, Middle East Studies, New Testament, Russian^. ^ also available as 'With Integrated Year Abroad Degrees'</p>	<p>Hebrew element of Joint Honours Degrees: Level 1: 40 credits comprising DI1003 and DI1004 Level 2: 40 credits comprising a pass at Grade 11 or better in both DI2001 and DI2002. Levels 3 and 4: At least 120 credits of which (a) 30 credits may be DE3601; (b) 30 credits must be either DI4501 or DI4502 unless a 4000-level dissertation is taken in the other Honours subject of the Joint Honours programme; and (c) at least 60 credits in modules chosen from modules with Hebrew, Aramaic or Syriac content chosen from DI4700 to DI4799. A total of 120 credits must be taken in 3000-level and 4000-level modules in Divinity. Students must ensure that their Joint Honour programme results in at least 90 credits at 4000-level.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): New Testament and Classical Studies, German[^], Greek, Hebrew, Latin, Modern History</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p>	<p>New Testament element of Joint Honours Degrees:</p> <p>Level 1: 40 credits comprising DI1006 and a pass at Grade 11 or better in one of DI1005 and GK1001, or a pass in Higher Greek or A level Greek</p> <p>Level 2: 20 credits comprising a pass at Grade 11 or better in DI2003.</p> <p>Level 3: 30 credits from DI3601.</p> <p>Level 4: 90 credits of which (a) 30 credits must be either DI4501 or DI4502 unless a 4000-level dissertation is taken in the other Honours subject of the Joint Honours programme; and (b) at least 60 credits must be in modules chosen from DI4600 - DI4699 with Greek language content.</p> <p>A total of 120 credits must be taken in 3000-level and 4000-level modules in Divinity. Students must ensure that their Joint Honours programme results in at least 90 credits at 4000-level.</p>
<p>(M.A. Honours): Theological Studies</p>	<p>Single Honours Theological Studies Degree:</p> <p>Level 1: 40 credits comprising DI1001 and DI1002.</p> <p>Level 2: 40 credits comprising passes at Grade 11 or better in both DI2004 and DI2005.</p> <p>Level 3: 30 credits comprising DI3602.</p> <p>Level 4: At least 180 credits of which (a) 30 credits must be either DI4501 or DI4502; and (b) 120 credits must be in modules chosen from DI4800 - DI4999, save that with the permission of the Head of School, 30 of the 150 credits may be taken in a 3000-level or 4000-level module or modules offered by another School.</p>
<p>(M.A. Honours): Theological Studies and Classical Studies, English, Film Studies, French[^], Geography, German[^], International Relations, Mathematics, Mediaeval History, Modern History, Philosophy, Psychology, Social Anthropology, Spanish[^].</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p>	<p>Theological Studies element of Joint Honours Degrees:</p> <p>Level 1: 40 credits comprising DI1001 and DI1002.</p> <p>Level 2: 40 credits comprising passes at Grade 11 or better in both DI2004 and DI2005.</p> <p>Level 3: 30 credits from DI3602.</p> <p>Level 4: At least 60 credits of which (a) 30 credits must be either DI4501 or DI4502 unless a 4000-level dissertation is taken in the other Honours subject of the Joint Honours programme; and (b) at least 30 credits must be in modules chosen from DI4800 - DI4999. A total of 120 credits must be taken in 3000-level and 4000-level modules in Divinity. Students must ensure that their Joint Honours programme results in at least 90 credits at 4000-level.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Theological Studies with Linguistics</p> <p>This programme is only available to those already enrolled in it.</p>	<p>Theological Studies with Linguistics:</p> <p>Level 1: 40 credits comprising DI1001 and DI1002</p> <p>Level 2: 40 credits comprising passes at 11 or better in both DI2004 and DI2005.</p> <p>Level 3: 30 credits from DI3602.</p> <p>Level 4: 150 credits of which (a) 30 credits must be either DI4501 or DI45021 unless a 4000-level dissertation is taken in the other subject of the programme, and (b) at least 120 credits must be in modules chosen from DI4600-DI4799; LI1002/2, LI2001 and a pass at 11 or better in LI2002, LI3001 (or for qualified students, one of FR3053, GM3077.GM3078, IT3009, ML3009, RU3015, RU3107, SP3011) and 45 credits from LI3002, LI4001, LI4002, LI4098.</p>
<p>(M.Theol. Honours): Master of Theology Honours</p>	<p>Single Honours Master of Theology Degree:</p> <p>Level 1: 80 credits comprising DI1001, DI1002, DI1003 and DI1006.</p> <p>Level 2: At least 80 credits of which: (a) 60 credits must be from DI2001, DI2003, DI2004, DI2005, DI2006, with a pass at Grade 11 or better in two of these modules; and (b) at least 20 credits must be from either a fourth module listed in (a) above or from one of the following: DI2002, DI2007, MO2001, PY2003, PY2004, PY2001 plus PY2002, PY2101 plus PY2102, or any other 2000-level module in a cognate subject-area chosen with the permission of the Head of School.</p> <p>Level 3: 60 credits comprising DI3601 and DI3602</p> <p>Level 4: At least 150 credits in 4000-level modules in Divinity, including either DI4501 or DI4502, save that, with the permission of the Head of School, 30 of these 150 credits may be taken in a 3000-level or 4000-level module or modules offered by another School.</p>
<p>(M.Theol. General): Master of Theology General</p>	<p>Master of Theology General Degree;</p> <p>Level 1: 80 credits comprising DI1001, DI1002, DI1003 and DI1006.</p> <p>Level 2: At least 80 credits of which: (a) 60 credits must be from DI2001, DI2003, DI2004, DI2005, DI2006; and (b) at least 20 credits must be from either a fourth module listed in (a) above or from one of the following: DI2002, DI2007, MO2001, PY2003, PY2004, PY2001 plus PY2002, PY2101 plus PY2102, or any other 2000-level module in a cognate subject-area chosen with the permission of the Head of School.</p> <p>Level 3: At least 60 credits from DI3601 and DI3602</p>

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

Divinity (DI) Modules

DI3601 Biblical Exegesis

Credits: 30 Semester: 1

Prerequisite: DI2001 or DI2003 plus, for those planning to do honours work in Hebrew and/or Greek, 11 or better in DI2002 and/or DI1005 as relevant

Description: This is one of the modules that serves to complete the General Degree (M.Theol.) and to prepare honours students for 4000-level modules in the general area of biblical studies. The content may vary from year to year, but will always include training in biblical interpretation and the exegetical study of specific texts from the Old Testament and the New Testament through lectures, seminars, student presentations, and the writing of a substantial exegesis paper on a biblical passage. Students wishing to pursue honours –level work in a biblical language must engage in exegesis of the passage in the original language in this essay.

Class Hour: To be arranged.

Teaching: One 1 hour lecture and one 2 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI3602 Theological explorations: texts, issues and applications

Credits 30 Semester: 1

Prerequisites: DI1001, DI1002, and DI2004 or DI2005

Description: This is one of the modules which serves to complete the General Degree (M.Theol.) and to prepare Honours students for 4000-level modules. It will consider a range of issues fundamental to belief and practice which have been central to and have shaped the Christian theological tradition over the past two millennia. It will do this through the study of texts in seminars, through lectures, and through private study and written assignments. Issues selected for study will be considered both from a historical perspective, and with a view to contemporary criticisms and reformulations of them.

Class Hour: To be arranged.

Teaching: One 1 hour lecture and 1 two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4501 Honours Dissertation in Divinity

Credits: 30 Semester: Either

Anti-requisite: DI4502

Description: This project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in dissertation form. The length of the dissertation should be approximately 10,000 words, and must not in any case exceed 12,000 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.

Class Hour: To be arranged.

Assessment: Dissertation = 100%

DI4502 Honours Research in Divinity

Credits: 30 Semester: Either

Anti-requisite: DI4501

Description: The Research in Divinity enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length. The Research in Divinity is assessed summatively by an assessed presentation and a three-hour essay written under exam conditions.

Class Hour: To be arranged.

Teaching: To be arranged.

Assessment: 3 Hour Examination = 100%

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DI4511 Church History Special Topic

Credits: 30 Semester: Either

Description: This module allows students the possibility of pursuing a special topic in Church History by arrangement with the staff of the subject area and the Head of School. The topic will be chosen from one of the areas of specialisation of the teaching staff or of a visiting scholar. A written statement of teaching and assessment will be agreed with the student and lodged with the Dean of Faculty.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4608 The Gospel of Matthew (English Texts)

Credits: 30 Semester: 2

Availability: 2009-10

Prerequisite: DI1006, DI3601

Anti-requisites: DI4609

Description: This module aims to develop skills in the interpretation of the Gospel of Matthew, with particular attention given to appreciating the text's literary and theological contribution to the New Testament. While the module will focus primarily on the narrative interpretation of the text, important social and historical issues will also be considered. The module will explore (1) relevant background issues, including authorship, provenance, and purpose, (2) the Matthean narrative in its literary and theological context, and (3) selected textual issues that are important and/or disputed within contemporary scholarship.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4609 Gospel of Matthew (Greek Texts)

Credits: 30 Semester: 2

Availability: 2009-10

Prerequisites: DI1005, DI1006, DI3601

Anti-requisites: DI4608

Description: This module aims to develop skills in the interpretation of the Gospel of Matthew (greek texts), with particular attention given to appreciating the text's literary and theological contribution to the New Testament. While the module will focus primarily on the narrative interpretation of the text, important social and historical issues will also be considered. The module will explore (1) relevant background issues, including authorship, provenance, and purpose, (2) the Matthean narrative in its literary and theological context, and (3) selected textual issues that are important and/or disputed within contemporary scholarship.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4611 Social-Scientific Approaches to the New Testament

Credits: 30 Semester: 2

Prerequisite: 11 or better in DI2003

Description: The module begins with consideration of the contribution which the sociology of knowledge can make to the investigation of the relationship between New Testament theologies and the social settings of the communities for which they were created. Next, the sociology of sectarianism is explored in connection with John's and Mark's Gospels: general theories of sectarianism and Bryan Wilson's typology are considered. Thirdly, the course deals with the social script of the Mediterranean world as revealed by cultural anthropologists. Such features as honour and shame, dyadic personality, patronage and limited good are explored in connection with several New Testament texts.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4615 New Testament Special Topic

Credits: 30 Semester: Either

Prerequisite: 11 or better in DI2003

Description: This module allows students the possibility of pursuing a special topic in the field of New Testament studies by arrangement with the staff of the subject area and the Head of School. The topic will be chosen from one of the areas of specialisation of teaching staff or of a visiting scholar. A written statement of teaching and assessment will be agreed with the student and lodged with the Dean of Divinity.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4626 The Book of Revelation: English Texts only

Credits: 30 Semester: 1

Anti-requisite: DI4627

Description: The module will examine the Book of Revelation (The Revelation of St John) in its biblical, historical and contemporary contexts. The core of the course will involve exegetical study of the book itself, with due attention paid to the genre of "apocalypse" and to the historical context from which the book came. Around this core we will examine the various interpretations of Revelation that are to be found through history, up to the present day, when the book has been massively popularised (and arguably heavily misunderstood) through ecclesiastical movements and through fictional works such as the *Left Behind* series.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4627 The Book of Revelation: English and Greek Texts

Credits: 30 Semester: 1

Prerequisite: DI1005 or equivalent

Anti-requisite: DI4626

Description: The module will examine the Book of Revelation (The Revelation of St John) in its biblical, historical and contemporary contexts. The core of the course will involve exegetical study of the book itself, with due attention paid to the genre of "apocalypse" and to the historical context from which the book came. Around this core we will examine the various interpretations of Revelation that are to be found through history, up to the present day, when the book has been massively popularised (and arguably heavily misunderstood) through ecclesiastical movements and through fictional works such as the *Left Behind* series.

The discussions of the English text will be complemented by readings of selected texts in Greek, with due attention paid to the critical apparatus of the New Testament.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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DI4707 The Wisdom Tradition in Ancient Israel A

Credits: 30 Semester: 1

Availability: Not available 2009-10

Prerequisite: 11 or better in DI2001

Description: This module will examine the nature of the material encompassed by the term 'wisdom literature' (the books of Proverbs, Job, Ecclesiastes, and Ecclesiasticus) and will also study the different literary types found in these books. Attention will be paid to the origins of wisdom in ancient Israel and to the existence of similar thought patterns in the ancient Near East generally. The structure and content of the individual books will be examined, and selected passages from the (in English only) will be studied in more detail. The module will conclude with an examination of the place of 'wisdom' in Old Testament theology.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4711 Old Testament Special Topic

Credits: 30 Semester: Either

Prerequisite: 11 or better in DI2001

Description: This module allows students the possibility of pursuing a special topic in Hebrew Bible Old Testament by arrangement with the staff of the subject area and the Head of School. The topic will be chosen from one of the areas of specialisation of the teaching staff or of a visiting scholar. A written statement of teaching and assessment will be agreed with the student and lodged with the Dean of Faculty.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4712 The Dead Sea Scrolls : English Texts

Credits: 30 Semester: 2

Anti-requisites: DI3213, DI3212, DI4713

Description: This module is a survey of the Dead Sea Scrolls and related manuscript finds from the Judaean Desert. The class will read and discuss the major sectarian texts from Qumran with a view toward understanding their place in Second Temple Judaism. Attention will also be given to the archaeological context of the Qumran discoveries, as well as to the revolutionary importance of the scrolls for our understanding of the Hebrew Bible and the New Testament. Related manuscript discoveries will also be studied, including the Samaria Papyri, the scrolls from Masada, and the letters of Bar Kochba. All texts will be read in English translation.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4713 The Dead Sea Scrolls : Hebrew Texts

Credits: 30 Semester: 2

Prerequisite: 11 or better in DI2002 and either DI2001 or DI2003

Anti-requisite: DI3212, DI3213, DI4712

Description: This module is a survey of the Dead Sea Scrolls and related manuscript finds from the Judaeen Desert. The class will read and discuss the major sectarian texts from Qumran with a view toward understanding their place in Second Temple Judaism. Attention will also be given to the archaeological context of the Qumran discoveries, as well as to the revolutionary importance of the scrolls for our understanding of the Hebrew Bible and the New Testament. Related manuscript discoveries will also be studied, including the Samaria Papyri, the scrolls from Masada, and the letters of Bar Kochba. Key texts will be read in Hebrew, with the rest in English translation.

Class Hour: To be arranged.

Teaching: Two hour seminar and a one hour Hebrew reading session.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4726 Hebrew Readings

Credits 30 Semester: 1

Prerequisite: DI1004 and 11 or better in DI2002

Description: This module intends to acquaint the student with a range of Hebrew Readings. Three areas of specialisation will be pursued: text criticism, exegesis, and reading and translating texts from the Old Testament, with a particular focus on the last of these. Text criticism is an advanced subject area, requiring cognate language skills and detailed work in the history of the Hebrew language. To this end, the module will familiarise students with the textual apparatus of (BHS) *Biblia Hebraica Stuttgartensia* and will attend to the logic of text-critical decisions deployed by the standard technical commentary series, notably The International Critical Commentary Series and the Hermenia Commentary Series.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4728 Poetry and Prayer: an Introduction to the Psalms

Credits 30 Semester: 1

Prerequisite: 11 or better in DI2001

Description: This module continues the study of the Old Testament in DI41003 and DI2001, and is an introduction to the Psalms. The formation, composition, different editions, their use in the New testament, in worship, as well as theological issues related to the psalms ill be studied. Different methods for analyzing and reading psalms will be applied.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4805 Practical Theology Special Topic

Credits: 30 Semester: Either

Prerequisites: DI1002 and 11 or better in DI2005

Description: This module allows students the possibility of pursuing a special topic in Practical Theology by arrangement with the staff of the subject area and the Head of School. The topic will be chosen from one of the areas of specialisation of the teaching staff or of a visiting scholar. A written statement of teaching and assessment will be agreed with the student and lodged with the Dean of Faculty.

Class Hour: To be arranged.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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DI4816 The Theology of the Musical

Credits: 30 Semester: 2

Description: This module examines the spiritual and pastoral dimension of one of the most powerful and distinctive cultural form and icon of the twentieth century – the musical. It involves detailed textual, linguistic, musical and cultural analysis of key musicals, including *The Sound of Music*, *Joseph and the Amazing Technicolor Dreamcoat*, *Jesus Christ Superstar*, *Godspell*, *Fiddler on the Roof*, *Les Miserables* and *Whistle Down the Wind*, and examination of their implicit and explicit theological agendas and philosophies. The module also considers the musical as a liturgical vehicle and post-modern theological and spiritual experience.

Class Hour: To be arranged.

Teaching: Three hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4822 Citizenship: A Practical Theological Exploration

Credits: 30 Semester: 2

Description: This module will explore citizenship from a practical theological perspective. It will consider a variety of contemporary theories and examples of how people in different contexts participate in the life of their community; this will include the students' own critical reflections on their practice of citizenship. The module will engage with a range of biblical outlooks, warnings and aspirations that pertain to civic and political duties and responsibilities. Particular attention will also be given to contemporary Protestant theological perspectives such as those of Jürgen Moltmann and Stanley Hauerwas. Recent Roman Catholic documents, from Episcopal and Papal sources, will be examined. The challenges and opportunities arising within contemporary contexts of citizenship such as anti-institutionalism, falling church attendance and the growth of the internet will be examined, principally from a theological perspective that gives due weight to the relational obligations of personhood.

Class Hour: To be arranged.

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4928 Theological Anthropology

Credits: 30 Semester: 2

Prerequisite: 11 or better in DI2004

Description: This module considers what it is to be a self or person in dialogue with issues raised by the sciences, philosophy of mind and theology. The module is divided into two parts. The first considers a) the impact of Descartes on the theological debate; b) contemporary dualist and physicalist debates with an eye to developments in neuroscience; and c) the nature of the self-relation (self-awareness, self-understanding, self-knowledge, self-governance) together with associated issues relating to moral autonomy and agency. The second part engages primarily with the contrasting theological anthropologies of Karl Rahner and Karl Barth but also with those of contemporary personalist and feminist theologians.

Class Hour: To be arranged.

Teaching: 2 hour seminar and occasional lectures.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4930 Christian Symbolics: Creeds and Confessions of Faith

Credits: 30 Semester: 1

Prerequisite: 11 or better in DI2004

Description: This module traces the history and use of statements of faith (creeds, confessions and other symbols) within the Christian tradition, and considers the relevance of such statements for Christian theology today. Accounts of the authority of creeds and confessions from major Christian traditions will be considered, and a close reading undertaken of three particular documents, to include the Chalcedonian definition, the Westminster Confession, and one other document, to be chosen each year by the class.

Class Hour: To be arranged.

Teaching: 2 hour seminar and occasional lectures.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

DI4932 Baylor University Module

Credits: 15 Semester: 2

Prerequisite: Baylor University programme.

Description: Description to follow.

Class Hour: To be arranged

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 100% (To be confirmed)

School of Economics & Finance

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours or B.Sc. Honours): Applied Economics Degree	<p>Single Honours Applied Economics Degrees:</p> <p>Level 1: At least 40 credits in 1000-level EC modules.</p> <p>Please note: A pass in EC1001 is a prerequisite for enrolment in EC2002, EC2003 and EC2004. A pass in EC1002 is a prerequisite for enrolment in EC2001.</p> <p>Level 2: At least 60 credits comprising passes in EC2001, EC2002, EC2003 and EC2004 with passes at 11 or better in both EC2001 and EC2002 (students who have passed MT2004 or MT1007 may be exempted from the requirement to pass EC2003 at the discretion of the Head of School; students who have passed MT1001 or MT1002 may be exempted from the requirement to pass EC2004 at the discretion of the Head of School)</p> <p>Level 3: 75 credits comprising EC3201, EC3202 and EC3203</p> <p>Level 4: at least 135 credits including EC4205 (30 credits) and at least 105 credits from EC4203, EC4302 or EC4303, EC4501 - EC4509, EC4511-EC4590 and from selected MN and IR modules approved by the Head of School.</p>

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Degree Programmes	Programme Requirements at:
<p>(M.Sci. Honours): Applied Quantitative Finance</p>	<p>Single Honours M.Sci. Applied Quantitative Finance Degree:</p> <p>Level 1: At least 20 credits including MT1002</p> <p>Level 2: At least 100 credits including EC2001, EC2002, MT2001 (at grade 15 or better) and MT2004.</p> <p>Level 3: At least 75 credits including EC3201, MT3504, MT3607 and MT3703.</p> <p>Level 4: At least 45 credits including EC4501, EC4502 and MT4551.</p> <p>Level 5: At least 150 credits including EC5301, EC5399, EC5703, EC5704, EC5705 and MT5812.</p> <p>The programme must also include at least 90 additional credits provided by the Schools of Economics & Finance and Mathematics & Statistics. Grades of 11 or more are normally required in EC2001 and EC2002 before a student may take any of the level 3, 4 or 5 modules provided by the School of Economics & Finance (modules with the prefix EC). Exceptions can only be made by the Head of the School of Economics & Finance. Students are also normally expected to take at least 150 credits at the 5000 level and at least an additional 180 credits from the 3000 and 4000 levels.</p>
<p>(M.A. Honours or B.Sc. Honours): Economics Degree</p>	<p>Single Honours Economics Degrees:</p> <p>Level 1: At least 40 credits in 1000-level EC modules.</p> <p>Please note: A pass in EC1001 is a prerequisite for enrolment in EC2002, EC2003 and EC2004. A pass in EC1002 is a prerequisite for enrolment in EC2001.</p> <p>Level 2: At least 60 credits comprising passes in EC2001, EC2002, EC2003 and EC2004 with passes at 11 or better in both EC2001 and EC2002 (students who have passed MT2004 or MT1007 may be exempted from the requirement to pass EC2003 at the discretion of the Head of School; students who have passed MT1001 or MT1002 may be exempted from the requirement to pass EC2004 at the discretion of the Head of School)</p> <p>Level 3: 75 credits comprising EC3201, EC3202 and EC3203;</p> <p>Level 4: 165 credits including EC4201, EC4202 and EC4203 (75 credits) and 90 credits from EC4204, either EC4300 or EC4301, EC4501-EC4590</p>
<p>(M.A. Honours or B.Sc. Honours): Financial Economics Degree</p>	<p>Single Honours Financial Economics Degrees:</p> <p>Level 1: At least 40 credits in 1000-level EC modules.</p> <p>Please note: A pass in EC1001 is a prerequisite for enrolment in EC2002, EC2003 and EC2004. A pass in EC1002 is a prerequisite for enrolment in EC2001.</p> <p>Level 2: At least 60 credits comprising passes in EC2001, EC2002, EC2003 and EC2004 with passes at 11 or better in both EC2001 and EC2002 (students who have passed MT2004 or MT1007 may be exempted from the requirement to pass EC2003 at the discretion of the Head of School; students who have passed MT1001 or MT1002 may be exempted from the requirement to pass EC2004 at the discretion of the Head of School)</p> <p>Level 3: 75 credits comprising EC3201, EC3202 and EC3203</p> <p>Level 4: 165 credits including EC4201, EC4202, EC4204, EC4501, EC4502 (105 credits) and 60 credits from EC4203, either EC4300 or EC4301, EC4501-EC4590</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Economics and Biology, Computer Science, Environmental Geoscience, Geoscience, Internet Computer Science, Management, Management Science, Mathematics, Psychology, Statistics.</p> <p>(M.A. Honours): Economics and Ancient History, Arabic, Biblical Studies, English, Film Studies, Geography, German[^], International Relations, Italian[^], Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Russian[^], Social Anthropology, Spanish[^], Statistics.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Economics element of Joint Honours Degrees: Level 1: At least 40 credits in 1000-level EC modules.</p> <p>Please note: A pass in EC1001 is a prerequisite for enrolment in EC2002, EC2003 and EC2004. A pass in EC1002 is a prerequisite for enrolment in EC2001.</p> <p>Level 2: At least 60 credits comprising passes in EC2001, EC2002, EC2003 and EC2004 with passes at 11 or better in both EC2001 and EC2002 (students who have passed MT2004 or MT1007 may be exempted from the requirement to pass EC2003 at the discretion of the Head of School; students who have passed MT1001 or MT1002 may be exempted from the requirement to pass EC2004 at the discretion of the Head of School)</p> <p>Level 3: 75 credits comprising EC3201, EC3202 and EC3203</p> <p>Level 4: at least 45 credits from EC4201-EC4204, EC4302, EC4501-EC4590</p> <p>Other information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved at 4000 level.</p> <p>Note: This programme will not provide sufficient Psychology credits for BPS recognition.</p>
<p>(B.Sc. Honours): Economics with French[^]</p> <p>(Not available to entrants after 2008-09)</p> <p>(M.A. Honours): Economics with German[^], Russian[^], Social Anthropology, or Spanish[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Economics element of Major Degree Programmes: Level 1: At least 40 credits in 1000-level EC modules.</p> <p>Please note: A pass in EC1001 is a prerequisite for enrolment in EC2002, EC2003 and EC2004. A pass in EC1002 is a prerequisite for enrolment in EC2001.</p> <p>Level 2: At least 60 credits comprising passes in EC2001, EC2002, EC2003 and EC2004 with passes at 11 or better in both EC2001 and EC2002 (students who have passed MT2004 or MT1007 may be exempted from the requirement to pass EC2003 at the discretion of the Head of School; students who have passed MT1001 or MT1002 may be exempted from the requirement to pass EC2004 at the discretion of the Head of School)</p> <p>Level 3: 75 credits comprising EC3201, EC3202 and EC3203</p> <p>Level 4: at least a further 75 credits including EC4203 (30 credits) and at least 45 credits from EC4201-EC4202, EC4204, EC4300-EC4301, EC4501-EC4590</p> <p>Other information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved at 4000 level.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Modern Languages with Economics[^]</p> <p>This programme is not available to entrants after 2005-06.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Economics element of Minor Degree Programmes; Level 1: At least 40 credits in 1000-level EC modules.</p> <p>Please note: A pass in EC1001 is a prerequisite for enrolment in EC2002, EC2003 and EC2004. A pass in EC1002 is a prerequisite for enrolment in EC2001.</p> <p>Level 2: At least 60 credits comprising passes in EC2001, EC2002, EC2003 and EC2004 with passes at 11 or better in both EC2001 and EC2002 (students who have passed MT1007 may be exempted from the requirement to pass EC2003 at the discretion of the Head of School; students who have passed MT1001 or MT1002 may be exempted from the requirement to pass EC2004 at the discretion of the Head of School)</p> <p>Level 3: 75 credits comprising EC3201, EC3202 and EC3203</p> <p>Level 4: 15 credits from EC4501-EC4590</p> <p>Other information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved at 4000 level.</p>

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any specific prerequisite(s) given.

General degree and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

Economics (EC) Modules

EC3201 Advanced Microeconomics

Credits: 30 Semester: 1

Description: The module is designed to provide an advanced understanding of selected but central topics in microeconomics. Students will be introduced to a range of formal analytical models that will help develop their understanding of core microeconomic theory. The subjects dealt with are: choice as constrained optimisation in consumer and producer theory, uncertainty, exchange, production and trade, imperfect competition and welfare economics. The module aims to develop a firm mathematical base to the economic theory involved.

Class Hour: 10.00 am Monday, Tuesday and Wednesday

Teaching: Three lectures and a weekly tutorial or laboratory

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

EC3202 Econometrics 1: The Classical Linear Regression Model

Credits: 15 Semester: 1

Description: This module introduces the student to the classical linear regression model with an emphasis on applied analysis using computers. The module also develops the student's understanding of the key concepts of statistical analysis and their application in economics. The skills that the student will acquire include the ability to estimate, interpret and test economic relationships and to use equations to make forecasts. These are essential components of the toolkit of a trained economist and are transferable skills in relation to many types of career.

Class Hour: 10.00 am Thursday and Friday.

Teaching: Two lectures and a weekly tutorial or laboratory

Assessment: Continuous Assessment = 40%, Report = 50%, Presentation = 10%

EC3203 Advanced Macroeconomics

Credits: 30 Semester: 2

Description: The module is designed to provide an advanced understanding of monetary theory and macroeconomics. Students will be introduced to a range of formal analytical models that will help develop their understanding of key macroeconomic and monetary relationships. Topics may include: models of growth, real business cycle theory, models of the demand for money and the supply of money, formal AD/AS models with rational expectations, models of the determination of the exchange rate, the issue of time inconsistency in monetary policy and New Keynesian macroeconomics.

Class Hour: 10.00 am Monday, Tuesday and Wednesday.

Teaching: Three lectures and one tutorial or laboratory

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

EC4201 Economic Analysis

Credits: 30 Semester: 1

Availability: Available only to students in the second year of the Honours Programme.

Description: The module is designed to provide an advanced understanding of current economic theory, covering both macroeconomics and microeconomics. The macroeconomic content of the module will include models of the microfoundations of money; aspects of economic growth, such as the Ramsey model, the Diamond model and the question of endogenous growth; and a range of issues on unemployment. The microeconomic content of the module will cover the role which information plays in markets with particular attention placed on the inefficiencies arising from asymmetric information as well as concepts and applications of game theory in economics and social science.

Class Hour: 10.00 am Monday, Tuesday and Wednesday.

Teaching: Three lectures and a weekly tutorial or laboratory

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

EC4202 Econometrics 2

Credits: 15 Semester: 1

Prerequisite: EC3202

Description: The module seeks to equip students with advanced skills in data analysis using both time series and cross-section econometric techniques. These skills include the ability to explain and interpret simultaneous equation models, limited dependent variable models and the properties of stationary and non-stationary variables. The module builds upon the knowledge of the classical linear regression model acquired in EC3202.

Class Hour: 10.00 am Thursday and Friday.

Teaching: Two lectures and a fortnightly tutorial

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

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EC4203 Contemporary Issues

Credits: 30 Semester: 2

Prerequisites: EC3201 and EC3203

Description: The module is designed to show students how to use economic analysis to understand a range of contemporary economic policy issues. It will cover a range of topics such as privatisation, regulation, the economics of the European Community, central bank independence, European monetary union, foreign exchange markets, the economics of global warming and carbon taxes. The exact list of topics will vary between years.

Class Hour: 10.00 am Thursday and Friday.

Teaching: Two lectures and occasional seminars

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

EC4204 Financial Economic Theory

Credits: 30 Semester: 2

Prerequisites: EC4501, EC4502, EC4201, EC4202

Description: This module is an introduction to the theoretical development of asset pricing models. Whereas EC4501 and EC4502 emphasise the solution of small case-studylike financial problems via the application of the standard CAPM pricing model, in EC4204 we derive the CAPM model from its foundations and study its theory in detail. The theoretical implications of pricing models for evaluating portfolio performance are also studied in depth. There is also extensive coverage of the theoretical foundations of option pricing. The binomial approach and its extensions to multinomial option pricing and, ultimately, the derivation of the Black-Scholes formula are studied.

Class Hour: To be arranged.

Teaching: Three lectures and a seminar

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

EC4205 Economic Policy

Credits: 30 Semester: 1

Prerequisites: Available **only** to students in the second year of the Applied Economics Honours Programme

Description: The module will study a range of contemporary topics in economic policy. It will introduce students to analyses of the choices confronting policy makers. The subject matter will range from the study of how individual markets can and should work to the broadest interactions in the world economy. The module will draw heavily on contemporary studies published by policy think tanks such as the CEPR, IFS, PSI and IPPR. Because the policy agenda is continually changing, the actual topics covered in the module will vary from year to year. Examples of topics that might be covered would be public/private partnerships, pension reform, the funding of higher education, competition policy, regulation, trade policy, technology policy and the economic issues of EU enlargement.

Class Hour: To be arranged.

Teaching: Two lectures and a seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

EC4300 Dissertation in Economics

Credits:	30	Semester:	Whole Year
Prerequisites:	Available only to students in the second year of the Single Honours Economics or Single Honours Financial Economics Programmes.		
Anti-requisite:	EC4301		
Description:	This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply economic and/or statistical and econometric analysis to a selected topic in economics. The dissertation must be on a topic in economics and a preliminary outline of it should have been approved within the first two weeks of the semester by the Director of Teaching and by the proposed dissertation supervisor. The maximum number of words allowed is 15,000 but students will be advised to cover the topic in around 10,000 words.		
Class Hour:	None, but attendance at the School research colloquia required.		
Teaching:	Three supervision meetings per semester.		
Assessment:	Continuous Assessment = 15%, Dissertation = 85%		

EC4301 Group Dissertation

Credits:	30	Semester:	Whole Year
Prerequisites:	Available only to students in the second year of the Single Honours Economics or Single Honours Financial Economics Programmes.		
Anti-requisite:	EC4300		
Description:	This module is designed to develop students' research, writing and presentation skills and to enable them to apply economic and/or statistical and econometric analysis to a selected topic in economics, as a part of a research team of 2 or 3 members. The dissertation must be on a topic in economics and a preliminary outline of it should have been approved within the first two weeks of the semester by the Director of Teaching and by the proposed dissertation supervisor. The maximum number of words allowed is 20,000 but students will be advised to cover the topic in around 18,000 words.		
Class Hour:	None, but attendance at the School research colloquia required.		
Teaching:	Three supervision meetings per semester.		
Assessment:	Continuous Assessment = 15%, Dissertation = 85%		

EC4302 Research Project

Credits:	30	Semester:	2
Prerequisites:	Available only to students in the second year of the Single Honours Applied Economics Programmes or of a joint degree involving Economics		
Anti-requisite:	EC4303		
Description:	This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply economic and quantitative analysis to a selected topic in economics. The project must be on a topic in economics chosen from a list collated by the Director of Teaching or on a topic approved by him/her. The maximum number of words allowed is 10,000 but students will be advised to cover the topic in around 8,000 words.		
Class Hour:	None, but attendance at the School research colloquia required.		
Teaching:	Three supervision meetings per semester.		
Assessment:	Continuous Assessment = 15%, Dissertation = 85%		

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EC4303 Group Research Project

Credits:	30	Semester:	2
Prerequisites:	Available only to students in the second year of the Single Honours Applied Economics Programmes or of a joint degree involving Economics		
Anti-requisite:	EC4302		
Description:	This module is designed to develop students' research, writing and presentation skills and to enable them to apply economic and quantitative analysis to a selected topic in economics, as a part of a research team of 2 or 3 members. The project must be on a topic in economics chosen from a list collated by the Director of Teaching or on a topic approved by him/her. The maximum number of words allowed is 15,000 but students will be advised to cover the topic in around 12,000.		
Class Hour:	None, but attendance at the School research colloquia required.		
Teaching:	Three supervision meetings per semester.		
Assessment:	Continuous Assessment = 15%, Dissertation = 85%		

EC4501 Capital Investment Analysis

Credits:	15	Semester:	1
Description:	This module introduces the basic concepts of investment value analysis. The ultimate aim is to provide the student with a standard approach to define, measure and predict the value of investments in a world of uncertainty. The standard notion of risk versus return is defined and analytical economic models of how risks and returns are determined and traded in financial markets are applied to solve investment analysis problems. The usual valuation problems covered in this module involve corporate investments, a wide array of corporate liabilities such as shares and bonds and associated financial contracts such as options.		
Class Hour:	To be arranged		
Teaching:	Two lectures per week and occasional seminars		
Assessment:	Continuous Assessment = 40%, 2 Hour Examination = 60%		

EC4502 Corporate Finance

Credits:	15	Semester:	2
Prerequisites:	EC4501		
Description:	In this module we investigate the problem of how a collection of corporate liabilities is affected in value by corporate actions. Possible actions include corporate investment decisions, decisions regarding the firm's financial structure, changes in management rules and compensation and changes in the scope, specialisation and legal environment of the corporation's business. As in the prerequisite module, EC4501, we emphasise standard methods for solving problems under economic uncertainty. At the end of this module the student will have a good working knowledge of institutions and the theory and valuation methods used worldwide in major corporations and financial institutions.		
Class Hour:	To be arranged		
Teaching:	Two lectures per week and occasional seminars		
Assessment:	Continuous Assessment = 40%, 2 Hour Examination = 60%		

EC4503 The Economics of Innovation

Credits:	15	Semester:	2
Availability:	2009-10		
Description:	Innovation is both a major contributory factor in economic growth and a crucial element of competitive behaviour and policy. The aim of this module is to introduce students to recent developments in the economic theory of innovation. The module, which is analytical in nature, examines the incentives firms have to innovate by the introduction of new products and new processes and, in particular, how this is affected by strategic competitive conditions.		
Class Hour:	To be arranged		
Teaching:	Two lectures		
Assessment:	Continuous Assessment = 40%, 2 Hour Examination = 60%		

EC4504 Economics of Social Life

Credits: 15 Semester: 1

Availability: 2009-10

Description: This module considers the application of microeconomic theory to various aspects of non-market social activity not generally considered to be economic in character. Much of the course focuses on the household production model introduced by Gary Becker, and its various applications to marriage, divorce, sleep, fertility, addiction and religion. In addition, there will be some consideration of the economics of courtship, sex, cohabitation, illegitimate births, altruism and gift giving.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4505 Environmental Economics

Credits: 15 Semester: 1

Availability: 2010-11

Description: The aim of this module is to introduce basic ideas and methods of environmental economics and policy building on a knowledge of economics. The background and current state of global warming is related to international efforts to control the problem and the activities of energy lobbies. A variety of economic, environmental and public policy considerations will be discussed including international trade, tropical deforestation, urban transport, sustainability of economic development, and the relationship between economic (material) growth, the environment, and human happiness and welfare. Specific problems of developing countries and their relations to the developed world will be studied.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4506 Experiments in Economics

Credits: 15 Semester: 1

Availability: 2009-10

Description: This module deals with aspects of bargaining, negotiation, conflict and choice under uncertainty. It draws heavily on evidence from laboratory experiments on human subjects which aim to test the congruence of game theory and microeconomic theory with observed behaviour. The topics covered will be selected from the following: auctions and bidding behaviour; sunk cost accounting; preference reversal; free riding and public goods; deadline effects and ultimatum games; co-ordination games; the determinants of bargaining behaviour; the subject incentive problem; experimental design and experimental ethics.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4508 Industrial Organisation

Credits: 15 Semester: 1

Availability: 2010-11

Description: This module is an analytical treatment of industrial organisation, providing rigorous coverage of core areas of the subject, supported by both theoretical models and econometric studies. Topics covered are as follows. Models of intra-industry competition, including discussion in game theoretic terms, and their econometric estimation. Other forms of competition, including workable competition and contestability. Natural monopoly analysis covering Ramsey pricing, the Weak Invisible Hand Theorem, and inter-temporal unsustainability. Extensions of organisational analysis of the firm, including managerial, growth, hierarchical, and principal-agent approaches. Financial structure of the firm, and empirical applications to takeovers and mergers.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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EC4509 International Finance

Credits: 15 Semester: 2

Availability: 2010-11

Description: This module provides a comprehensive treatment of selected aspects of international finance. The course makes intensive use of mathematical techniques of exchange rate modelling. The module aims to deepen understanding of the functioning of the international financial system, and to familiarise students with some key issues in the literature of international finance. It has a dual function: to provide an understanding of some international financial policy issues which have figured heavily in recent practical debates, and to consolidate understanding of some basic principles of financial theory.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4510 Issues in Economic Policy

Credits: 15 Semester: 1

Anti-requisite: EC4205

Description: The module will study a range of contemporary topics in economic policy. It will introduce students to analyses of the choices confronting policy makers. The subject matter will range from the study of how individual markets can and should work to the broadest interactions in the world economy. The module will draw heavily on contemporary studies published by policy think tanks such as the CEPR, IFS, CEPA, PSI and IPPR. Because the policy agenda is continually changing, the actual topics covered in the module will vary from year to year. Examples of topics that might be covered would be public/private partnerships, pension reform, the funding of higher education and competition policy, regulation, trade policy, technology policy and the economic issues of EU enlargement.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4511 Labour Economics

Credits: 15 Semester: 2

Availability: 2009-10

Description: Core microeconomics modules provide the basic tools for the understanding of labour economics. This module aims to build upon these foundations, examining in some detail a series of topics of interest within the labour economics field. These include the functioning of labour markets, and how wages, employment and unemployment are determined. In particular, the role of differing institutions across countries and how they influence labour market outcomes will be explored.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4512 Law and Economics

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module is designed to develop an analytical understanding of the economic function of legal principles and procedure, using microeconomic theory. Students analyse property, contract, family, tort and criminal law by the application of economic models and techniques. Topics include the optimal criminal deterrence, property and liability rules of nuisance, optimal breach of contract, and the costs of accidents.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4513 The Macroeconomics of European Integration

Credits: 15 Semester: 2

Availability: 2009-10

Description: The purpose of the module is to explore the macroeconomic and monetary issues involved in European economic integration. After a historical introduction focused on the question of why the members of the EC/EU have sought exchange rate stability and then monetary union, the module provides a thorough examination of the theory of optimum currency areas, including both traditional and modern approaches, and both theoretical and empirical European-related research. It then investigates the workings of the pre-EMU European monetary arrangements, the European Monetary System. The monetary policy strategy of the ECB will then be considered and the relationship between fiscal and monetary policy and the desirability of stability pact limits on fiscal policy will be examined. Finally, we will examine and evaluate the experience of EMU.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4514 Monetary Policy

Credits: 15 Semester: 1

Availability: 2010-11

Description: The module is designed to provide a specialised understanding of monetary policy issues. The lectures cover the aims of monetary policy, the use of alternative monetary policy frameworks, the issue of central bank independence, and current topics such as interest rate smoothing. The last part of the course surveys the experience of major countries with different policy frameworks over the last quarter of a century.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4515 Public Finance

Credits: 15 Semester: 2

Availability: 2010-11

Description: The aim of the module is to apply principally microeconomic reasoning to understand a range of issues in the economics of the public sector. It will examine the growth of government expenditure, the arguments for it and the problems of its management. It will discuss issues such as how much public provision there should be of both private and public goods, the growth of social security and its implications for efficiency and equity, and the problems of coping with an ageing population. Since taxes finance a large part of this spending, the module will look at the pattern of taxation (both nationally and internationally), the effects of tax on the behaviour of economic agents, and the design of a tax system. The module also discusses other topical issues in public finance such as devolution, the regulation of industry and the auctioning of public assets.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC4517 Small Business Economics

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module will provide students with a detailed understanding of the small firm as a distinct enterprise form. The approach combines theory, evidence and policy. Under theory, the course considers rational bases for small-firm formation, attitude to risk, distribution of entrepreneurial ability, and division of labour, amongst other topics. Under evidence, the course looks at matters like the size distribution of firms, and empirical models of performance, growth, flexibility and survival. Under policy, the course considers issues like the small-firm sector's importance for employment, labour market flexibility, entrepreneurship, and innovation. Reference is made to the UK economy in general, and specifically to the Scottish economy, for example, in the context of policies for enterprise stimulation, like business incubation.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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EC4522 International Trade and Globalisation

Credits: 15 Semester: 2

Prerequisite: EC4201

Description: This module is designed to place the modern debate on international trade and globalisation in theoretical and historical context. First, it will develop, at an advanced level, the key modern theories of the costs and benefits of free international trade. Second, it will review the key empirical tests of these theories. Third, the module will analyse the historical context within which these theories developed, and will examine, in some detail, the last great era of increasing globalisation (roughly speaking, up until the First World War). Finally, the module will address the key policy implications of the globalisation debate.

Class Hour: To be arranged

Teaching: Two lectures

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

EC5301 AQF Third year Project

Credits: 30 Semester: Whole Year

Availability: 2010-11

Prerequisite: EC4501

Co-requisites: MT4551

Description: This module is mainly intended for the proposed four year Master's programme in Applied Quantitative Finance but can be taken up by any interested students satisfying the pre- and co-requisites. Students will take part in a motivated trading game which is set up by an academic staff member. Students will build groups and each group will be given a 'hypothetical endowment' which it can use to buy 'hypothetical' shares of stocks, futures, options and other derivatives which are listed at the London Stock Exchange. Students need to actively manage their portfolio and one objective is to achieve a maximum portfolio value at the end of the module. However, students need to motivate their investment decision by referring to theoretical concepts such as the Capital Asset Pricing Model, Black-Scholes formula, Value at Risk etc. During the trading game students have to write three reports, which need to reflect this.

Class Hour: To be arranged

Teaching: Lectures

Assessment: Continuous Assessment = 100%

EC5399 Dissertation in Applied Quantitative Finance

Credits: 40 Semester: Whole Year

Availability: 2011-12

Description: This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply financial, economic, mathematical and/or statistical/econometric analysis to a selected topic in Quantitative Finance. The dissertation must be on a topic in Quantitative Finance and a preliminary outline of it should have been approved within the first two weeks of Martinmas semester by the Director of Teaching and by the proposed dissertation supervisor. The maximum number of words allowed is 20,000 but students will be advised to cover the topic in around 15,000. Dissertations have to be written individually.

Teaching: Individual Supervision

Assessment: Dissertation = 85%, 15 Minute Examination = 15%

MT5812 Global Capital Markets - Structured Derivatives, Analytics and Applications

Credits:	20	Semester:	Either
Availability:	20010-11		
Prerequisite:	MT4551		
Co-requisites:	EC5705		

Description: The Global Capital Markets divisions of Investment Banks are now a significant employer of highly numerate graduates who have a rigorous training in both Economics and Mathematics. This module will provide a practical introduction to the theory and applications of the various different types of structured derivatives that currently exist across all the asset classes that constitute Capital Markets. Detailed examples of both the applications as well as the dynamics, valuation and risk-management of 'vanilla' and 'exotic' Interest Rate, Equity, Credit, FXC and Commodity structured derivatives will be discussed and analysed.

The focus will be practical and there will be a bias towards developing a strong intuition through discussing and analyzing such questions as 'Why do structured derivatives exist?', 'Who are the participants (e.g. Asset Managers, Pension Funds, Hedge Funds, etc) in this market?', 'How are these structured derivatives valued, risk-managed and traded?', 'What types of models are used in their valuation?'. 'What assumptions underlie the models and when do the assumptions break down?' to finally 'How do Banks make money from structured derivatives?' and 'How are the models actually used on the trading desks of Investment Banks?'

Class Hour:	To be arranged
Teaching:	Two lectures and one tutorial
Assessment:	Continuous Assessment = 60%, Two hour Examination = 40%

School of English

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 (H) levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 (H) levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

General Information: For students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours): English	<p>Single Honours English:</p> <p>Level 1: 40 credits comprising EN1001 and EN1002 or EN1003 and EN1004;</p> <p>Level 2: 40 credits comprising: EN2003 and EN2004, with Grade 11 or better in both EN2003 and EN2004</p> <p>Level 3: 90 or 120 credits in 3000-level or 4000-level modules prefixed 'EN'</p> <p>Level 4: 90 or 120 or 150 credits in 3000-level or 4000-level modules prefixed 'EN' (depending upon the number of credits acquired at Level 3).</p> <p>Levels 3 & 4 choices are subject to the following provisions: (1): Students are required to take one module from Group A (EN3111 - EN3140, EN4311 - EN4340), one module from Group B (EN3141 - EN3160, EN4341 - EN4360), and one module from Group C (EN3161 - EN3189, EN4261 - EN4389), and must also take the Dissertation (Group D: EN4399).</p> <p>The balance of 'EN' 3000-level and 4000-level required credits are to be taken from any 3000-level or 4000-level modules offered by the School, (including those offered in Group E (EN3201-EN3250, EN4401-EN4495)).</p> <p>(2): Students may, with permission of both Heads of School, substitute, by means of 'dip-across', 30 3000-level or 4000-level credits in another school for 30 3000-level or 4000-level credits in the School of English, provided that the requirements indicated in the previous paragraph are not breached.</p> <p>Other Information: The total number of English credits required at 3000 level and 4000 level is 210 (where 30 'dip-across' credits are being offered) or 240 (where no 'dip-across' credits are being offered).</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours):</p> <p>English and Arabic*, Art History, Biblical Studies, Classical Studies, Economics, Film Studies, French[^], German[^], Greek, Hebrew, Italian[^], Latin, Management, Mediaeval History, Middle East Studies, Modern History, Philosophy^β, Psychology, Russian*[^], Scottish History, Social Anthropology, Spanish[^], Theological Studies.</p> <p>* -Timetable clash means 2000 level English must be taken in First year to do this combination.</p> <p>β Despite timetable clash, 1000 level English must be taken in First year to do this combination.</p> <p>[^] - available also as 'With Integrated Year Abroad Degrees'</p>	<p>English Element of Joint Degree:</p> <p>Level 1: 40 credits comprising EN1001 and EN1002 or EN1003 and EN1004;</p> <p>Level 2: 40 credits comprising: EN2003 and EN2004, with Grade 11 or better in both EN2003 and EN2004</p> <p>Level 3: 60 or 90 credits in 3000-level or 4000-level modules prefixed 'EN'</p> <p>Level 4: 30 or 60 credits in 3000-level or 4000-level modules prefixed 'EN' (so arranged that the total of 3000-level and 4000-level credits in English modules does not exceed 150 credits and the total number of credits in the degree as a whole does not exceed 240).</p> <p>Levels 3 & 4: choices are subject to the following provisions: Students are required to take one module from Group A (EN3111 - EN3140, EN4311 - EN4340), or Group B (EN3141 - EN3160, EN4341 - EN4360), or Group C (EN3161 - EN3189, EN4261 - EN4389), Their remaining 'EN' modules may be taken from any of the modules in groups A,B,C,D, and E (EN3201-EN3250, EN4401-EN4495).</p> <p>Other Information: Students whose English contribution to their joint-degree consists of 120 or 150 credits may (with permission of the Head of the School of English and the Head of the School in which the 'dip-across' module is taught) substitute up to 30 3000-level and 4000-level credits in a third School or subject for 30 English credits at 3000-level. In no case may the total of English credits at 3000 level and 4000 level fall below 90.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved at 4000 level</p>
<p>(M.A. Honours):</p> <p>Modern Languages with English[^] French-German with English[^] French-Italian with English[^] French-Russian with English[^] French-Spanish with English[^] German-Italian with English[^] German-Russian with English[^] German-Spanish with English[^] Italian-Russian with English[^] Italian-Spanish with English[^] Russian-Spanish with English[^]</p> <p>[^] - available also as 'With Integrated Year Abroad Degrees'</p>	<p>English element of Minor Degree:</p> <p>Level 1: 40 credits comprising EN1001 and EN1002 or EN1003 and EN1004</p> <p>Level 2: 40 credits comprising: EN2003 and EN2004, with Grade 11 or better in both EN2003 and EN2004</p> <p>Level 3: 30 or 60 credits in 3000-level or 4000-level modules prefixed 'EN'</p> <p>Level 4: 30 or 60 credits in 3000-level or 4000-level modules prefixed 'EN'</p> <p>Other Information: A total of 90 English credits shall be taken at 3000 level and 4000 level In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved at 4000 level.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): English with Linguistics[^] *</p> <p>[^] - available also as 'With Integrated Year Abroad Degrees'</p> <p>* - This programme is only available to those already enrolled in it.</p>	<p>English element of Major Degree:</p> <p>Level 1: 40 credits comprising EN1001 and EN1002 or EN1003 and EN1004;</p> <p>Level 2: 40 credits comprising:EN2003 and EN2002 (or EN2004), with Grade 11 or better in both EN2003 and EN2002 (or EN2004)</p> <p>Level 3: 90 credits in 3000-level or 4000-level modules prefixed 'EN'</p> <p>Level 4 : 90 credits in 3000-level or 4000-level modules prefixed 'EN'</p> <p>Levels 3 & 4: choices are subject to the following provisions: Students are required to take one module from Group A (EN3111 - EN3140, EN4311 - EN4340), or Group B (EN3141 - EN3160, EN4341 - EN4360), or Group C (EN3161 - EN3189, EN4261 - EN4389). Their five remaining 'EN' modules may be taken from any of the modules in groups A,B,C,D (EN4399), and E (EN3201-EN3250, EN4401-EN4495).</p> <p>Other Information: Students should at the end of their degree course have 180 credits at 3000-level and 4000-level in English modules and 60 credits in 3000-level or 4000-level modules in Linguistics.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved at 4000 level.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given. Additional prerequisites are indicated for 4000-level modules.

General Degree students wishing to enter 3000-level modules and non-graduating Students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

English (EN) Modules

EN3111 *Beowulf*

Credits: 30 Semester: 1

Anti-requisite: EN3019

Description: This module introduces students to one of the strangest works of mediaeval literature, *Beowulf*. The hero's struggles against monsters, and the text's depiction of pagan aristocracies and tribal warfare will be studied in close readings and thematic study against the backdrop of Anglo-Saxon literary history and poetic conventions. Key aspects studied will include monstrosity, warfare, paganism, leadership, poetic composition, early mediaeval manuscript production, and the usage of electronic tools. The module will also range widely amongst related North Sea literature (Old English poetry, Old Norse sagas, mediaeval Latin, and modern folklore). *Beowulf* will be read in a glossed edition and in the original; supporting material will be read in translation. Some prior experience with reading Old English (e.g. through EN2003) is useful, but not necessarily required. (Group A)

Class Hour: 9.00 and 10.00 am Wednesday.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

English – Honours 2009/10 – September 2009

EN3112 Chaucer's *Canterbury Tales*

Credits: 30 Semester: 2

Anti-requisite: EN3060

Description: This module consists of the study of Chaucer's *Canterbury Tales* for its individual tales and as a whole, with regard to such key features as genre, structure, mediaeval literary thought and gender. (Group A)

Class Hour: 11.00 am – 1.00 pm Wednesday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3113 Unreformed Scotland: Older Scots Literature to 1560

Credits: 30 Semester: 2

Description: This module introduces students to the late-mediaeval literature of pre-Reformation Scotland. A representative selection of Older Scots works from the fifteenth and earlier sixteenth centuries will be studied in the context of development in the language, literary culture and political climate of the period before the cultural watershed of the Reformation. Writers studied will include Henryson, Dunbar, Douglas and Lyndsay as well as some of their anonymous contemporaries. (Group A)

Class Hour: 12.00 noon Tuesday and 2.00 pm Thursday.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 70%, 2 Hour Examination = 30%

EN3141 Tragedy in the Age of Shakespeare

Credits: 30 Semester: 2

Anti-requisite: EN3020

Description: The aim of the module is to develop an understanding of different versions of tragedy in the English Renaissance. (Group B)

Class Hour: 12.00 noon Tuesday and 2.00 pm Thursday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3142 Renaissance Literature: Texts and Contexts

Credits: 30 Semester: 1

Anti-requisite: EN3021

Description: The aim of the module is to develop an understanding of some major literary texts of the Renaissance both in formalist terms and in terms of their historical and cultural context. Authors considered will include Spenser, Shakespeare, Jonson, Donne, Herbert, Marvell and Milton. (Group B)

Class Hour: 12.00 noon Tuesday and 12.00 noon Thursday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3143 Shakespeare and the Beginnings of English Citizen Comedy

Credits: 30 Semester: 1

Anti-requisite: EN3066

Description: This module aims to introduce students to the beginnings of English citizen drama in the mediaeval Mystery and Morality plays and then to consider later plays, including a number by Shakespeare, which take urban living for their setting and treat it in a range of modes. (Group B)

Class Hour: 12.00 noon Monday and 10.00 am Friday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3161 The Development of the Novel to 1840

Credits: 30 Semester: 2

Anti-requisite: EN3023

Description: This module is designed to allow students to acquaint themselves with some of the principal novels of the period 1720-1840 together with the social background from which they derive. It will show the development of the novel form from its earliest stages to its establishment as the dominant literary form in the nineteenth century. It forms part of the critical and historical study of literature available to students in the School and the Faculty. (Group C)

Class Hour: 11.00 am Tuesday and 12.00 noon Thursday.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3162 Revolution and Romanticism: Literature, History and Society, 1789-1805

Credits: 30 Semester: 1

Anti-requisite: EN3030

Description: This module provides wide-ranging reading in the literature of the 1790s, with emphasis on the interaction between literature, history and political revolution during this decade. (Group C)

Class Hour: 11.00 am Tuesday and 10.00 am Thursday.

Teaching: Two hours per week, seminars, lectures, or tutorials.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3163 The Younger Romantics: Poetry and Prose (1810-1830)

Credits: 30 Semester: 2

Anti-requisite: EN3031

Availability: 2009-2010

Description: This module aims to acquaint students with the principal poetic and non-fictional prose texts of the second generation of English Romantic writers. (Group C)

Class Hour: 11.00 am Thursday and 11.00 am Friday.

Teaching: Two hours per week: seminars, lectures or tutorials.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3164 Self and Society in the Victorian Novel

Credits: 30 Semester: 2

Anti-requisite: EN3040 and EN3205

Description: This module is based on the close study of (typically) five Victorian novels. It will concentrate on two related thematic issues: the sense of social and historical change, and the search for coherence and stability in the self. Students will examine the way the novel both reflected and contributed to contemporary debate on such topics as the re-emergence of feminist argument, urbanisation, and evolutionary theory. Attention will also be given to the formal inventiveness of the Victorian novel, in particular the use of non-realist elements, and the different roles given to the narrators. (Group C)

Class Hour: 2.00 pm Tuesday and 10.00 am Friday.

Teaching: One lecture, one fortnightly seminar and one fortnightly tutorial.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

English – Honours 2009/10 – September 2009

EN3201 Literary Theory

Credits: 30 Semester: 1

Availability: Not Available 2009-10

Anti-requisite: EN3002

Description: This module is designed to allow students to acquaint themselves with the principal critical theories which have underlain the production of Western literary work from its beginnings in Greek antiquity. It forms part of the study of literary history available to students in the School and the Faculty. (Group E)

Class Hour: 11.00 am - 1.00 pm Friday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3202 Literature and Ecology

Credits: 30 Semester: 1

Anti-requisite: EN3018

Description: An introduction to the history of ecology-related literature from the transcendentalists to the present, including the nature writing tradition, ecocriticism and writing as ecology. Beginning with Emerson and Thoreau, we examine how a transcendentalist philosophy of nature influenced English-language works in the UK and USA; we also address a number of schools or trends, including feminist, regional, naturalist, Native American and other indigenous thinking, as well as the implications of ecocritical writing for a wider field, including other literary-critical approaches, economics and history. (Group E)

Class Hour: 2.00 pm Tuesday and 2.00 pm Thursday

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3203 The Historical Novel

Credits: 30 Semester: 2

Anti-requisite: EN3027

Description: Concentrating on an often-neglected genre of writing, this module provides the opportunity for detailed study of a wide range of nineteenth- and twentieth-century novels with historical settings. These texts will be examined within a broader framework that asks students to analyse the diverse pictures these novels paint of the past. Students will consider the relationship between literature and historical narrative; the role of the imagination in shaping our view of the past; the social and cultural importance of different visions of history; and the manner in which such narratives are shaped in response to present-day concerns. (Group E)

Class Hour: 10.00 am Tuesday and 10.00 am Thursday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3204 Aspects of Modern Poetry

Credits: 30 Semester: 1

Anti-requisite: EN3032

Description: This module aims to acquaint students with a good range of the major poets in English of the twentieth century, from Thomas Hardy to Dylan Thomas. (Group E)

Class Hour: 10.00 am Tuesday and 11.00 Thursday.

Teaching: One lecture, one fortnightly seminar and one fortnightly tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3206 Aspects of Modern Fiction

Credits: 30 Semester: 2
Anti-requisite: EN3041
Description: This module aims to acquaint students with a good range of the major fiction writers of the twentieth century in English, from Joseph Conrad to William Golding. (Group E)
Class Hour: 12.00 noon Monday and 12.00 noon Friday.
Teaching: One lecture, one fortnightly seminar and one fortnightly tutorial.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3207 Twentieth-Century British and Irish Drama

Credits: 30 Semester: 1
Anti-requisite: EN3042
Description: This module aims to introduce students to English drama of the twentieth century and to issues in the study of drama of any period. (Group E)
Class Hour: 12.00 noon Monday and 12.00 noon Wednesday
Teaching: One lecture and one seminar.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3208 Scottish Verse

Credits: 30 Semester: 1
Anti-requisite: EN3055
Description: This module provides a survey of Scottish poetry that includes some detailed engagement with major poets such as Dunbar, Burns and MacDiarmid, as well as the opportunity to work with living writers. (Group E)
Class Hour: 10.00 am Wednesday and 10.00 am Friday.
Teaching: One lecture/seminar and one seminar.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3209 Scottish Fiction

Credits: 30 Semester: 2
Anti-requisite: EN3056
Description: This module provides an introduction to the tradition of Scottish fiction since Scott by means of close study of major works by leading Scottish novelists of the nineteenth and twentieth centuries. (Group E)
Class Hour: 10.00 am Monday and 10.00 am Wednesday.
Teaching: One lecture, one seminar.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN3210 Twentieth-Century American Drama

Credits: 30 Semester: 1
Anti-requisite: EN3065
Description: This module aims to introduce students to 'classic' American plays of the twentieth century and to issues involved in the study of drama of any period. (Group E)
Class Hour: 12.00 noon Tuesday and 12.00 noon Thursday.
Teaching: Two one hour seminars.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

English – Honours 2009/10 – September 2009

EN3211 Culture and Society in Modern Scotland

Credits: 30 Semester: 2
Anti-requisite: EN3901

Description: Scottish writing will be studied interactively with social and political history - for example, Modern Scottish Fiction studied in its artistic and cultural setting against a background of the economic and social conditions of urban and rural Scotland of the time. Literary texts and paintings, such as those of the Scottish Renaissance movement, will be examined in the light of Scottish artistic taste, the social and political conditions of the 1930s, and more recent writing, art and society. (Group E)

Class Hour: 2.00 - 4.00 pm Monday.

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4311 Old English Poetry

Credits: 30 Semester: 2
Anti-requisite: EN3012, EN4212

Description: A wide-ranging study of Old English poetry, including heroic and elegiac works, wisdom-poetry, riddles, and religious verse. The texts chosen for study reflect the variety and quality of Old English poetry, and reveal ways in which traditional Germanic forms and themes were adapted within the literate Christian culture of Anglo-Saxon England. (Group A)

Class Hour: 2.00 – 4.00 pm Monday.

Teaching: Two tutorials.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4312 Authorising English: Society, Gender and Religion in late Mediaeval English Literature

Credits: 30 Semester: 1
Anti-requisite: EN4214

Description: The module examines the literature composed in England during the later Middle Ages with an emphasis on the years around 1400 - a period in which ideas of 'English literature' and the 'English language' can be seen under construction. The module offers an introduction to the genres of Middle English literature (particularly lyric poetry, romance and mystical writing) . And it examines the interrelationship between textual practice and the cultural processes that generated imaginative writing. Special attention will be paid to the preoccupation of authors with a world which they saw as moving towards moral, political and religious complexity and uncertainty. Also to be explored will be the implication in turbulent ideological debate of the use of English in texts many of which are written for laypeople and women (Group A)

Class Hour: 3.00 pm and 4.00 pm Monday.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4313 Arthurian Legend and Middle English Romance

Credits: 30 Semester: 1

Anti-requisite: EN4217

Description: This module aims to provide the student with a comprehensive and sophisticated understanding of the development of mediaeval romance in Britain, and the role of Arthurian legend in creating and sustaining this popular and flexible genre. The module begins by tracing the evolving literary figure of Arthur, whose development parallels that of the romance genre itself. The major themes, issues, and narrative forms of the genre are then explored through a range of Arthurian and non-Arthurian texts. The contemporary audience for, and patronage of, the mediaeval romances will be examined partly through issues raised in the texts themselves, such as social class and gender (from the beginning, women played a large role in both the audience and patronage of romances), and partly through direct consideration of their textual transmission and manuscript background. Who wrote these texts? Who read them? How and where, in an age before printing, were they circulated and publicised? And finally, what was (and is) their enduring appeal? (Group A)

Class Hour: 10.00 am Tuesday and 11.00 am Thursday.

Teaching: Two seminars.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

EN4341 Renaissance Sexualities: Rhetoric and the Body 1580-1660

Credits: 30 Semester: 1

Anti-requisite: EN4009

Availability: Not Available 2009-10

Description: The Reformation and Renaissance in English saw shifts in thinking about the place of sexuality and gender in society. Married chastity was spiritually elevated over monastic celibacy, and a classical tradition of temperate control of appetites competed with a Christian tradition of condemning all non-procreative sex. At the same time, this 'Renaissance of chastity' constrained women as imaginative writers. This module will examine the representation of sexuality and gender in poems, prose and drama by men and women in the period 1580 – 1660, focusing on such issues as the transvestite stage, the rhetorical concept of 'manly' style, interpretations of Genesis, the ideology of friendship and transformations in the traditions of love poetry. (Group B)

Class Hour: 2.00 Tuesday and 2.00 pm Thursday.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4342 Restoration Theatre

Credits: 30 Semester: 2

Availability: 2009-10

Anti-requisite: EN4261

Description: This module aims to introduce students to examples of the varied kinds of Restoration drama, studied in conjunction with contemporary material on the theatres, on the plays and playwrights and on social/political background as well as with more modern critical writing. (Group B)

Class Hour: 11.00 am Monday and 12.00 noon Friday.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

English – Honours 2009/10 – September 2009

EN4343 Literature and Law in Early Modern England

Credits: 30 Semester: 2

Availability: 2009-10

Anti-requisite: EN4265

Description: Approaching literature by way of the law can transform our thinking about how stories are told, what constitutes 'proof' or 'probability', and how, imaginatively speaking, we gain access to, or reconstruct, the intentions of others (and even our own). In early modern England, the Latin rhetorical treatises used to teach students how to write compelling narratives and invent poetic arguments had originally been designed as treatises for advocates, so there was a very direct connection between legal and fictional techniques for telling stories and imagining motives and 'facts' (as disputed actions were called in English law). This module will explore works of drama and poetry that have strong affinities with legal forms of argument, and will encourage critical thinking about the relations between literary and legal ways of thinking in all periods. (Group B)

Class Hour: 11.00 am Thursday and 11.00 am Friday

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4344 Early English Romance Comedy: Shakespeare and his Contemporaries

Credits: 30 Semester: 1

Anti-requisite: EN4267

Description: Students will consider the dramatic rendering of romance material in the late sixteenth and early seventeenth centuries alongside contemporary writing on dramatic theory and information about staging. About half the plays studied will be by Shakespeare. (Group B)

Class Hour: 2.00 pm Monday and 11.00 am Wednesday.

Teaching: One lecture and one seminar/ tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4361 The Novels of Jane Austen in Context

Credits: 30 Semester: 1

Availability: 2009-10

Anti-requisite: EN4005

Description: This module will examine the six major novels of Jane Austen in the context of novels by three of her contemporaries, Mary Wollstonecraft, Maria Edgeworth and Ann Radcliffe. It aims to encourage an understanding of Austen's work in the light of Romantic period aesthetics and politics and to explore Austen's affinities with and departures from the novelistic conventions of the late eighteenth and early nineteenth centuries. The module will also consider critical and theoretical approaches to Austen's writing and selected contemporary translations of Austen's work through recent screen adaptations of her novels. (Group C)

Class Hour: 10.00 am – 12.00 noon Monday.

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4362 Mind, Body and Soul: Literature in the Enlightenment

Credits: 30 Semester: 1

Availability: Not Available 2009-10

Anti-requisite: EN4204

Description: The Enlightenment is a contested historical category, with arguments about literature and philosophy contributing to the definition of what enlightens a human subject. As a result of reading major texts of poetry, fiction and non-fiction from the Eighteenth Century, students on this module will be encouraged to explore the ways in which literature constructs relationships between the rational, emotional, spiritual and physical aspects of human life. They will also be invited to ask how the physical, emotional and spiritual impinge upon rational accounts of enlightenment, and will study the way in which literary texts such as Rochester's poems, Pope's *Essay on Man*, and Sterne's *Tristram Shandy* complicate accounts of the age of reason given from the perspective of the history of ideas. (Group C)

Class Hour: 2.00 pm Tuesday and 2.00 pm Thursday.

Teaching: Two seminars

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4363 Romantic Writing and Women

Credits: 30 Semester: 2

Availability: Not Available 2009-10

Anti-requisite: EN4235

Description: The work of Blake, Wordsworth and Shelley is well known to students of Romanticism – but what of their female contemporaries? This module explores the richly varied and often exciting fiction, poetry and non-fictional prose emanating from the pen of women writers in the aftermath of the French Revolution, showing how a 'revolution in female manners' sprang out of the momentous changes of post-1789 European society. (Group C)

Class Hour: 2.00 pm Tuesday and 10.00 am Friday.

Teaching: One lecture/seminar and one tutorial/seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4364 The Art of Victorian Poetry

Credits: 30 Semester: 1

Anti-requisite: EN4007 and EN4401

Description: This module explores the richness and diversity of poetry written and/or published in the period 1837-1901. Covering a range of major works, it examines the new demands made of poetry in this era, and the different ways in which poets respond to the challenge of skepticism and disagreement about poetry's place in an industrialized society. The structure of the module is both chronological and thematic, addressing issues such as gender, class, religion, and nation in relation to Victorian poetry. Throughout, the module uses the background of visual art – including poetry book illustration, Victorian paintings based on subjects from Victorian poetry, and artworks commemorated in Victorian poems – to highlight issues regarding poetry's status, aims, and appearance in the period. Looking at the art of poetry in relation to visual art, it asks how Victorian poetry aligns itself with broader aesthetic debates about form, function, and representation. (Group C)

Class Hour: 11.00 am – 1.00 pm Friday.

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

English – Honours 2009/10 – September 2009

EN4399 Dissertation in English

Credits: 30 Semester: 1

Prerequisites: A pass in any 3000-level English module.

Anti-requisite: EN4201

Description: This module provides an opportunity to undertake a sustained piece of independent work, on a topic chosen by the student in consultation with a member of the School, leading to the presentation of an essay not more than 10,000 words in length. The dissertation may consist of a critical discussion or of a project based on the extensive collection of electronic texts currently available to the School. It will involve personal reading and research and will develop a range of skills, including investigative reading, use of information technology, the exploitation of library and internet resources, and the organisation and presentation of evidence and argument. Guidance will be given on scholarly conventions and basic research methods. (Group D)

Class Hour: 9.00 am Friday.

Assessment: Dissertation = 100%

Re-Assessment: 3 Hour Examination = 100%

EN4402 Speeches and Speechwriting: History, Theory and Practice

Credits: 30 Semester: 2

Anti-requisite: EN4203

Description: An introduction to speechwriting, involving a survey of the historical tradition of eloquence as an educational, political, and literary tool, with analysis and practice of rhetorical figures and strategies. Rooted in close reading of speeches from the Renaissance to the present day, the module examines: Classical models and tropes; the values and practices of Renaissance speechmaking; the rise and fall of 'rhetoric' in the 18th and 19th centuries; and the politics of gender, race, and class in contemporary speechmaking styles. Students will write and deliver their own speeches on a set topic as part of the module. (Group E)

Class Hour: 3.00 pm Tuesday and 2.00 pm Friday

Teaching: Lectures, seminars and practical classes.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4403 Mediaevalism

Credits: 30 Semester: 2

Availability: Not Available 2009-10

Anti-requisite: EN4216

Description: This module considers literary efforts to continue, revive or adapt the Mediaeval by reference to a range of texts from Spenser to Tolkien. Areas of study will include *The Faerie Queene*; Eighteenth-century Gothick; Scott and the Romantics; the Pre-Raphaelites; the Arts and Crafts Movement and its modern followers. Much of the base material can be found in the *Norton Anthology of English Literature*, to be supplemented by other literary texts and ancillary material from religion, art and architecture. (Group E)

Class Hour: 3.00 pm Tuesday and 2.00 pm Friday.

Teaching: One seminar/lecture, one tutorial/seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4404 Shakespeare and Film

Credits: 30 Semester: 1

Availability: 2009-10

Anti-requisite: EN4226

Description: A study of filmed versions of Shakespeare's plays (including adaptations) from the silent era to the present, including an introductory exploration of film history, theory and practice. There will be a film viewing each week and students will have the opportunity to map out a design for filming a scene from one of the plays as part of their assessment. (Group E)

Class Hour: Tuesday 3.00 pm, plus film viewing.

Teaching: One lecture plus one film viewing session.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

EN4405 Contemporary Poetry in Great Britain and Ireland

Credits: 30 Semester: 2

Anti-requisite: EN4233

Description: This module provides an introduction to contemporary English-language poetry written in Great Britain and Ireland; examines some of its important forebears; and gives an overview of the present state of the art in the constituent nations of the United Kingdom and in the Republic of Ireland.(Group E)

Class Hour: 11.00 am to 1.00 pm Monday

Teaching: Two seminars.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4406 Contemporary Fiction

Credits: 30 Semester: 2

Availability: 2009-10

Anti-requisite: EN3041 in the same semester, EN4243

Description: This module is designed to explore the range and diversity of British and American fiction of the last two decades, including examples of the short story, and to meet the challenge of entering into debate in areas where there is no body of settled opinion. Texts selected will vary from year to year. Students will typically examine from seven to nine works, looking at both thematic and formal issues. (Group E)

Class Hour: 11.00 am – 1.00 pm Monday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4407 Twentieth-Century Crime Fiction: Gender and Genre

Credits: 30 Semester: 2

Availability: Not Available 2009-10

Anti-requisite: EN4244

Description: This module will analyse social, cultural and literary formations through the medium of popular fiction. It offers a contrast to the twentieth century canon, and students will be encouraged to interrogate prevailing attitudes towards and representations of gender and sexuality. The module will also focus on the reappropriation of the genre by contemporary gay, lesbian and feminist writers. Among authors studied will be Agatha Christie, Dorothy L. Sayers, Raymond Chandler, Sara Paretsky and Ian Rankin. (Group E)

Class Hour: 11.00 am – 1.00 pm Wednesday.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4408 Science Fiction

Credits: 30 Semester: 1

Availability: 2009-10

Anti-requisite: EN4245

Description: This module introduces students to some of the key themes and concerns of modern science fiction via the study of selected key works from both the British and American tradition, including novels, short stories and critical writings. Engaging in close reading and with contemporary theoretical approaches such as Marxism, Feminism and genre theory, students will study the literary, theoretical, social and political contexts and consequences of textual explorations of issues such as: evolution and devolution; utopias and dystopias; man and machine; aliens, invasion and colonization; alternate histories; apocalypse; race, sex and gender, and cyberspace. (Group E)

Class Hour: 3.00 - 5.00 pm Thursday

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

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EN4409 Modern American Drama

Credits: 30 Semester: 2

Anti-requisite: EN4247

Description: This module aims to introduce students to recent and contemporary American plays and to issues involved in the study of drama of any period. It is offered as a complement to EN3065 in which plays from the early and middle years of the twentieth century are studied. (Group E)

Class Hour: 11.00 am Tuesday and 12.00 noon Thursday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4410 Women, Writing and Representation in the Second World War

Credits: 30 Semester: 1

Availability: Not Available 2009-10

Anti-requisite: EN4248

Description: This module aims to consider both women's literary responses to the Second World War and the contexts within which those responses were formulated. It will examine the impact of conflict on constructions of masculinity and femininity and explore the contrasting strategies through which writers made sense of the radical dislocations of war. Issues considered will include the construction of national identities, the conflict between pacifism and patriotism, the implications of fascism, the guilt of the survivor and the paradoxical liberation sometimes associated with war. The module will examine a variety of genres including poetry, fiction, journalism and autobiography and will also explore the representation of women in film and advertising. (Group E)

Class Hour: 3.00 – 5.00 pm Tuesday.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4411 D.H. Lawrence

Credits: 30 Semester: 1

Anti-requisite: EN4249

Description: A range of D.H. Lawrence's works – novels and shorter fiction, plays, poems and non-fiction prose – will be studied in their literary, social and historical contexts. Students will be encouraged in the close study of the chosen texts, and required to give spoken presentations on selected topics in relation to these texts as well as to write essays and examination answers on them. (Group E)

Class Hour: 10.00 am – 12.00 noon Monday.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4412 An Introduction to Irish Literature

Credits: 30 Semester: 2

Availability: Not Available 2009-10

Anti-requisite: EN4251

Description: The module provides an introduction to Irish literature and culture, tracking Irish writing (primarily in the twentieth century) against developments in Irish history and politics, from the independence campaigns to the peace process. Writers studied will include Yeats, Joyce, O'Brien, Heaney. Some Irish language texts will be studied in English translation. (Group E)

Class Hour: 10.00 am Monday and 10.00 am Wednesday.

Teaching: One seminar plus tutorials.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

EN4413 Reading the 1940s

Credits: 30 Semester: 2

Antirequisite: EN4248, EN4252

Description: Although more than sixty years after the Second World War ended, the British public still seems obsessed with its events, this obsession is accompanied by only the most limited sense of the literature, film and culture of the 1940s as a decade. This module will offer students the opportunity to undertake an interdisciplinary study of this underexplored period of literary history. This was a period of unprecedented social and political change and its literature is correspondingly diverse. It was also a 'golden age' for British cinema, and the module will examine the mediation of cultural anxieties through both writing and representation. Issues of particular concern might include responses to the Second World War, the construction of national identity, changing gender roles, the impact of the welfare state, the 'end of empire' and the onset of the cold war. (Group E)

Class Hour: 11.00 am to 1.00 pm Wednesdays

Teaching: Two hour seminars.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4414 Thomas Hardy

Credits: 30 Semester: 2

Anti-requisite: EN4262

Description: This module is based on the close study of a selection of the prose fiction, poetry and autobiographical writings of Thomas Hardy. Students will examine Hardy's position as a regional writer, his relation to 'realism', and his representation of women and sexuality; the features, thematic and formal, which have made him a major influence on twentieth-century poetry; and the relevance of (auto)biographical and historical questions to the study of his work. The module will introduce students to a range of issues in social, literary and intellectual history, and to the use and evaluation of some recent developments in critical theory. (Group E)

Class Hour: 10.00 am Tuesday and 10.00 am Thursday.

Teaching: One lecture, one fortnightly seminar and one fortnightly tutorial.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

EN4415 T.S. Eliot

Credits: 30 Semester: 2

Anti-requisite: EN4264

Description: The module aims to familiarize students with the Complete Poems of T.S. Eliot, and with some of his drama and criticism. Building on the study of poetry at sub-honours level, this module is freestanding, though it contributes to the study of poetry and Modernist writing at Honours level. (Group E)

Class Hour: 11.00 am - 1.00pm Wednesday.

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4416 Virginia Woolf

Credits: 30 Semester: 1

Anti-requisite: EN4268

Description: The writings of Virginia Woolf have had a major impact on the development of the English novel this century. This module involves detailed study of Woolf's most important fictional texts, and also considers her contribution to literary criticism and feminism through readings of selected extracts from her essays and diaries. The development of critical and communication skills through written and oral assignments will be an integral part of the module. (Group E)

Class Hour: 3.00 - 5.00 pm Thursday.

Teaching: One lecture and one seminar/ tutorial.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

English – Honours 2009/10 – September 2009

EN4417 Creative Writing

Credits: 30 Semester: 1

Anti-requisite: EN4270

Description: A persuasive school of thought believes that the study of poetry can be greatly enhanced by learning how to write in such long-lived and basic forms as the sonnet as well as acquiring a practical knowledge of versification. Similarly, an understanding of fiction can be enhanced by an awareness of different approaches to narrative, dialogue and characterisation. Poetry and fiction will therefore be studied from these practical and technical perspectives in alternate weeks. (Group E)

Class Hour: 2.00 pm Monday, and 11.00 am - 1.00 pm Wednesday.

Teaching: One seminar and one tutorial

Assessment: Continuous Assessment =100%

EN4418 American Poetry since 1950

Credits: 30 Semester: 1

Description: This module provides an introduction to the contemporary poetry of the United States, examining some of its important predecessors, recent poetic theory, ideas related to its regional poetics, ways in which poets reflect and engage with the contemporary world, and in which they regard their roles and activities. Through a close study of a number of poets, a sense will be gained of the role and importance of U.S. contemporary poetry and its relation to the broader tradition.

Class Hour: 9.00 - 11.00 am Tuesday.

Teaching: One seminar and one tutorial

Assessment: Continuous Assessment =100%

EN4419 American Fiction: Self and Nation, 1865 - 1939

Credits: 30 Semester: 2

Description: This module provides an introduction to American fiction published between the end of the Civil War and the start of the Second World War. The module encourages students to evaluate the relationship between historical events (including Reconstruction, the 'Jazz Age', the Depression) and American literary movements and genres including the romance, the realist novel, the 'lost generation', the Harlem Renaissance and Southern Gothic. The module is centrally concerned with the conception and representation of American identity in fiction, and with heterogeneous definitions of 'the American novel'. These topics are considered in relation to the historical, social and geographical contexts of ten set texts.

Class Hour: 2.00 and 3.00 pm Friday

Teaching: One seminar and one tutorial

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

EN4420 Creative Writing II

Credits: 30 Semester: 2

Description: Creative Writing II is designed to enable students to improve their creative writing skills in prose (mainly the short story) and poetry while also introducing them to non-fictional prose narrative forms, such as memoir, essay and autobiography. Students will also learn to analyse these forms critically, and assessment will include one submission of critical work and one submission of creative writing.

Class Hour: 3.00 - 5.00 pm Thursday

Teaching: One seminar

Assessment: Continuous Assessment = 100%

School of Geography & Geosciences

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours or B.Sc. Honours): Geography	<p>Single Honours Geography:</p> <p>Level 1: 40 credits comprising passes in (GE1001 or GG1001) and (GE1002 or GG1002)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GE2011 and GE2012</p> <p>Level 3 & Level 4: GE3001, GE3002, GE3004 and GE3005; <i>plus</i> either GE3006 or GE3007; <i>plus</i> either GE3008 or GG3011; <i>plus</i> GE4014, GE4018 and GE4019; <i>plus</i> 120 additional 3000-level and 4000-level credits of which at least 90 credits must be from GE3025 - GE3097, GE4026 - GE4090 and/or GG3021 - GG3102, GG4042 - GG4090. Of the 240 credits required for an Honours degree, 90 credits must be at 4000 level.</p>

Geography & Geosciences – Honours 2009/10 – September 2009

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Geography and Art History, Classical Studies, Economics, Film Studies, French[^], Hebrew, International Relations, Italian[^], Management[~], Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Scottish History, Social Anthropology, Spanish[^], Theological Studies.</p> <p>(B.Sc. Honours): Geography and Management[~], Management Science, Mathematics, Statistics.</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p> <p>[~]Timetable clash exists, therefore this combination is subject to arrangement with both Departments.</p>	<p>Geography element of Joint Honours Degrees:</p> <p>Level 1: 40 credits comprising passes in (GE1001 or GG1001) and (GE1002 or GG1002)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GE2011 and GE2012</p> <p>Level 3 & Level 4: 30 credits from GE3001, GE3002, GE3004, GE3005, either GE3006 or GE3007, GE3008, GG3011, GE4014; <i>plus</i> GE4018; <i>plus</i> 60 additional 3000-level and 4000-level credits from GE3025 - GE3097, GE4026 - GE4090 and/or GG3021 - GG3102, GG4042 - GG4090. Of the 240 credits required for an Honours degree, 90 credits from Joint Honours subjects must be at 4000 level.</p>
<p>(B.Sc. Honours): Geography and Environmental Biology</p>	<p>Geography element of Joint Degree:</p> <p>Level 1: 40 credits comprising passes in (GE1001 or GG1001) and (GE1002 or GG1002)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GE2011 and GE2012</p> <p>Level 3 & Level 4: 30 credits from GE3001, GE3002, GE3004, GE3005, either GE3006 or GE3007, GE3008, GG3011, GE4014; <i>plus</i> GE4018; <i>plus</i> 60 additional 3000-level and 4000-level credits from GE3025 - GE3097, GE4026 - GE4072 and/or GG3021 - GG3102, GG4042 - GG4090. Of the 240 credits required for an Honours degree, 90 credits from Joint Honours subjects must be at 4000 level.</p>
<p>(M.A. Honours): Geography with Social Anthropology or Spanish[^]</p> <p>[^]available also as ‘With Integrated Year Abroad Degree’</p>	<p>Geography element of Major Degrees:</p> <p>Level 1: 40 credits comprising passes in (GE1001 or GG1001) and (GE1002 or GG1002)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GE2011 and GE2012</p> <p>Level 3 & Level 4: GE3004, GE4014; <i>plus</i> any four of: GE3001, GE3002, GE3005, either GE3006 or GE3007, GE3008, GG3011; <i>plus</i> GE4018; <i>plus</i> 90 additional 3000-level and 4000-level credits from GE3025 - GE3097, GE4026 - GE4090 and/or GG3021 - GG3102, GG4042 - GG4090. Of the 240 credits required for an Honours degree, 90 credits from major and/or minor subjects must be at 4000 level.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Psychology, Russian[^], Social Anthropology or Spanish[^] with Geography.</p> <p>[^] available also as 'With Integrated Year Abroad Degree'</p>	<p>Geography element of Minor M.A. Degrees:</p> <p>Level 1: 40 credits comprising passes in (GE1001 or GG1001) and (GE1002 or GG1002)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GE2011 and GE2012</p> <p>Level 3 & Level 4: 80 credits from GE or GG 3000-level and 4000-level modules, at least 60 credits of which must be from GE3025 - GE3097, GE4026 - GE4090 and/or GG3021 - GG3102, GG4042 - GG4090. Of the 240 credits required for an Honours degree, 90 credits from major and/or minor subjects must be at 4000 level.</p>
<p>(B.Sc. Honours): Mathematics with Geography</p>	<p>Geography element of Minor B.Sc. Degree:</p> <p>Level 1: 40 credits comprising passes in (GE1001 or GG1001) and (GE1002 or GG1002)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GE2011 and GE2012</p> <p>Level 3 & Level 4: 80 credits from GE or GG 3000-level and 4000-level modules, at least 60 credits of which must be from GE3025 - GE3097, GE4026 - GE4090 and/or GG3021 - GG3102, GG4042 - GG4090. Of the 240 credits required for an Honours degree, 90 credits from major and minor subjects must be at 4000 level.</p>
<p>(B.Sc. Honours): Geoscience</p>	<p>Single Honours Geoscience:</p> <p>Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012</p> <p>Level 3: 90 credits comprising GS3002, GS3004, GS3012, GS3081, GG3082, and GS3090 and 30 credits from the group GG3021**, GG3023, GG3036, GG3041, GG4042, GG3052, GG3056**, GG3057**, GG3058, GG3090, GG3095, GG3096, GG4059, GG3067, GG3068, GG3069, GS4083, GS4084, GG3089*.</p> <p>Level 4: 60 credits comprising GS4005, GS4006, GS4007, GS4008, and 60 credits from the group ID4001, GS4085, GS4086, GG4082, GS4088, GG3021**, GG3023, GG3036, GG3041, GG4042, GG3052, GG3056**, GG3057**, GG3058, GG3090, GG3095, GG3096, GG4059, GG3067, GG3068, GG3069, GS4083, GS4084*, BL4020***.</p> <p>*NB in addition to GS4005, GS4006, GS4007, and GS4008, at least 30 credits of other 4000-level modules must be taken over the 2 years of Junior and Senior Honours.</p> <p>** these modules are available only to students who have taken GE2011, GE2012</p> <p>*** this module is only available to students who have completed 2nd year biology</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Geoscience and Chemistry</p>	<p>Geoscience - Chemistry Joint Degree: Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012) and 40 credits comprising Pass or bypass for CH1001, pass in CH1004 Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012 and 60 credits comprising passes at 11 or better in CH2101, either CH2102 or CH2103 Level 3: 120 credits comprising CH4512, CH3711, CH3521, CH3511, CH3721, CH3431 and GS3004, normally GS3081* and 1 from (GS4083 or GS4084). Level 4: 120 credits comprising 3 from (CH4511, CH4611, CH4711, CH4712 and CH5711), CH4448§, CH5515, normally GS4083 or GS4084**, GS4005, GS4010, GS4009, 1 from (GS4088, GG3067, GG3068, GG3069 and GG3082) * With the approval of the Geoscience Adviser of Studies, a student may replace GS3081 and (GS4083 or GS4084) by 2 from GG3067, GG3068, GG3069, GG3082 in semester 2. ** With the approval of the Geoscience Adviser of Studies, a student may replace GS4083 or GS4084 by a second module from the list GS4088, GG3067, GG3068, GG3069, GG3082 and GG3096 §With the approval of the Directors of Teaching, under some circumstances, students might conduct an integrated 40-credit project, ID4441, combining CH4448 with GS4009 and presenting a single, extended report.</p>
<p>(B.Sc. Honours): Geoscience and Economics</p>	<p>Geoscience element of Joint Degree: Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012) Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012 Level 3: 60 credits comprising GG3082, GS3012, GS3081, GS3090 Level 4: 45 credits from GS4005, GS4006, GS4007, GS4009 and at least 15 credits from GG3089, or GS4082 – GS4088.</p>
<p>(B.Sc. Honours): Geoscience and Environmental Biology</p>	<p>Geoscience element of Joint Degree: Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012) Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012 and Honours entry in the other subject Level 3: 30 credits from GS3004, and 15-45 (but usually 30) credits from the group GG3023, GG3067, GG3068, GG3069, GG3082, GG3096. Level 4: 30 credits from GS4005, GS4009, GS4010, and 15-45 (but usually 30) credits from the group GG4082, GS4088, GG3023, GG3067, GG3068, GG3069, GG3096 at least 15 credits of which must be at 4000 level. Students on the Geoscience and Environmental Biology degree must take a minimum of 45 credits and a maximum of 75 credits in each subject in each year.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Geoscience and Management, Management Science</p>	<p>Geoscience element of Joint Degree:</p> <p>Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012)</p> <p>Level 2: 60 credits comprising passes at 11 or better in (GG2003, GG2004, GS2001, and GS2002) or (GS2011 and GS2012)</p> <p>and Honours entry in the other subject</p> <p>Level 3: 30 credits from GS3004, and 30 credits from the group GG3023, GG3067, GG3068, GG3069, GG3082, GG3096.</p> <p>Level 4: 30 credits from GS4005, GS4009, GS4010, and 30 credits from the group GG4082, GS4088, GG3023, GG3067, GG3068, GG3069, GG3096 of which at least 15 credits must be at 4000 level.</p>
<p>(B.Sc. Honours): Geoscience with Spanish[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degree'</p> <p>Not available to entrants from 2008-09</p>	<p>Geoscience element of Major Degree:</p> <p>Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012)</p> <p>Level 2: 60 credits comprising passes at 11 or better in (GG2003, GG2004, GS2001, and GS2002) or (GS2011 and GS2012)</p> <p>and Honours entry in Spanish</p> <p>Level 3: 60 credits from GS3002, GS3004, GS3012, GS3090 and 30 credits from the group GG3021, GG3023, GG3036, GG3041, GG4042, GG3052, GG3056, GG3057, GG3058, GG4059, GG3067, GG3068, GG3069, GS3081, GG3082, GS4083, GS4084, GG3089, GG3090, GG3095, GG3096</p> <p>Level 4: 60 credits from GS4005, GS4006, GS4007, GS4008, and 30 credits from the group GS4085, GS4086, GG4082, GS4088, GG3021, GG3023, GG3036, GG3041, GG4042, GG3052, GG3056, GG3057, GG3058, GG4059, GG3067, GG3068, GG3069, GS3081, GS3082, GG3090, GG3095, GG3096, GS4083, GS4084</p>
<p>(B.Sc. Honours): Environmental Geoscience</p>	<p>Single Honours Environmental Geoscience:</p> <p>Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012)</p> <p>Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012</p> <p>Level 3: 75 credits comprising GG3002, GG3082, GG3089, GG3110, GS3012, GS3090 and 45 credits from GG3021**, GG3023, GG3036, GG3041, GG4042, GG3052, GG3056**, GG3090, GG3095, GG3096, GG4057**, GG3058, GG4059, GG3067, GG3068, GG3069, GS3081, GS4084.</p> <p>Level 4: 60 credits comprising GG4110, GG4120, GS4008 and 60 credits from the group ID4001, GG3021**, GG3023, GG3036, GG3041, GG4042, GG3052, GG3056**, GG4057**, GG3058, GG4059, GG3067, GG3068, GG3069, GG3090, GG3095, GG3096, GG4082, GS4085, GS4086, GS4088, BL4020***.</p> <p>** these modules are available only to students who have taken GE2011, GE2012</p> <p>*** this module is available to students who have completed 2nd year biology</p>

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Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Environmental Geoscience and Environmental Biology</p>	<p>Environmental Geoscience element of Joint Degree: Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012) Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012 Level 3: 60 credits comprising GG3002, GS3012, GS3089, GS3090, GG3096, GG3110 Level 4: 45 credits comprising GG4110, GG4120, GS4009 and at least 15 credits from GG3082, GG30067, GG3052, GG3069, GS4088, BL4020. Students on the Environmental Geoscience and Environmental Biology degree must take a minimum of 45 credits and a maximum of 75 credits in each subject in each year.</p>
<p>(B.Sc. Honours): Environmental Geoscience and Economics or Management Science</p> <p>(M.A. Honours) Environmental Geoscience and Management</p>	<p>Environmental Geoscience element of Joint Degree: Level 1: 40 credits comprising passes in (GS1001 or GG1011) and (GS1002 or GG1012) Level 2: 60 credits comprising passes at 11 or better in GS2011 and GS2012 Level 3: 50 credits comprising GG3089, GG3110, GS3012, GS3090 Level 4: 45 credits from GS4009, GS4110, GS4120 and at least 15 credits from GG3052, GG3067, GG3069, GG3082 or GS4088.</p>
<p>(B.Sc. Honours): Physical Geography & Geoscience</p> <p>Not available to entrants from 2009-10</p>	<p>Single Honours Physical Geography & Geoscience: Level 1: 80 credits comprising passes in ((GE1001 OR GG1001) OR GG1001), (GE1002 OR GG1002), (GS1001 or GG1011), (GS1002 or GG1012). Level 2: 120 credits comprising passes at 11 or better in GE2011, GE2012, GS2011 and GS2012. Level 3: 75 credits comprising GE3001, GE3002, GE3006, GG3082, GS3002, GS3012 and GS3090, plus 45 credits from GG3021 - GG3096, GG4042 - GG4090, GS3081, GS4083 or GS4084. Level 4: 45 credits comprising GG4130, GS4007 and GS4010 plus 75 credits from ID4001, GG3021 - GG3110, GG4042 - GG4120, GS3081 or GS4083 - GS4088. Of the 240 credits required for an Honours degree: (1) at least 45 credits must be taken from GG3021 - GG3069 or GG4042 - GG4090; (2) at least 45 credits must be taken from GG3082 - GG3110, GG4110 - GG4120, GS3081 or GS4083 - GS4088; (3) at least 90 credits must be at 4000 level.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

InterDisciplinary (ID) Modules

There are modules which relate to this School and to which this School contributes – **ID4001 Communications and Teaching in Science** and **ID4441 Combined Chemistry and Geoscience Research Project** which also appear in the InterDisciplinary Section of the Catalogue (Section 23)

Geography (GE) Modules

GE3001 Cartographic Methods in Geography

Credits: 10 Semester: 1

Availability: Available only to students in the first year of the Honours Programme.

Description: This module provides an introduction to basic map design and production. The module syllabus begins with lectures outlining the ideas of generalisation, simplification and symbolisation. An introduction to computerised map production (e.g. using Adobe Illustrator) is provided. These themes form the basis for a series of practical classes, giving the student the opportunity to put these ideas into practice to produce both thematic and choropleth maps.

Class Hour: Friday 9.00 am - 12.00 noon and 2.00 - 5.00 pm during weeks 9-12.

Teaching: Two lectures and 12 hours of practicals in total, over 4 weeks.

Assessment: Practical Exercises = 100%

GE3002 Field Class in Geography

Credits: 10 Semester: 2

Availability: Available only to students in the first year of the Honours Programme.

Description: An important part of geographical study is to put into practice what is learned in the classroom. To that end, this module is organised around a week-long residential course, usually undertaken in continental Europe

Class Hour: To be arranged.

Teaching: Between 5 and 12 days.

Assessment: Project Report = 100%

GE3004 Ideas and Methods in Geography I

Credits: 10 Semester: 2

Description: A module of lectures and workshops covering the major philosophical and methodological debates which have arisen within geography over the last two decades. Topics range from an introduction to the nature of methodological analysis, through a consideration of the most recent developments in both human and physical geography, to a discussion of the relationships between nature and culture. Students are required to participate actively in the workshop sessions and discussion is encouraged throughout.

Class Hour: 2.00 - 4.00 Thursday.

Teaching: 20 hours of lectures and workshops in total.

Assessment: Course Work = 100%

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GE3005 Data Analysis in Geography

Credits: 10 Semester: 1

Availability: Available only to students in the first year of the Honours Programme.

Description: This module is designed to give students an introduction to the handling, presentation and analysis of numerical data within the context of Geography. Topics will include: (i) understanding data types; (ii) data presentation and basic descriptive statistics; (iii) probability; (iv) hypothesis testing using parametric and non-parametric statistics; (v) correlation and regression; (vi) an introduction to the analysis of spatial data. The use of the MINITAB statistical software; is designed to allow these techniques to be employed with large data sets.

Class Hour: Lecture: 2.00 - 3.00 pm Friday, Practical: 3.00 - 5.00 pm Friday, Revision Practical 1 hour (TBA).

Teaching: One lecture and one two-hour practical class each week over 6 weeks.

Assessment: Continuous Assessment = 100%

GE3006 Survey : Physical

Credits: 10 Semester: 2

Availability: Available only to students in the first year of the Honours Programme.

Description: This is a practical class in which students are introduced to the principles and practice of basic topographic survey, and the computer processing of field survey data. Based on a local field area, instruction is provided in the use of levels, theodolites and EDMs for simple field survey. Data collected from the field survey exercise will be analysed using 3D computer software models.

Class Hour: 2.00 - 4.00 pm Friday.

Teaching: 20 hours of lectures, laboratories and field instruction in total.

Assessment: Project Report = 100%

GE3007 Survey : Social

Credits: 10 Semester: 2

Availability: Available only to students in the first year of the Honours Programme.

Description: This module introduces students to the techniques of social survey design: problem identification; questionnaire construction; interviewing; sampling; data coding and analysis; report writing and evaluation. Students will be required to conduct a small field survey and present both a verbal and written report on their findings. Data will be analysed using the computer package SPSS for Windows. The module will be of particular use to those students contemplating a dissertation topic in human geography.

Class Hour: 2.00 - 4.00 pm Friday.

Teaching: 20 hours of lectures and practical work in total.

Assessment: Project Report = 100%

GE3008 Qualitative Methods in Geography

Credits: 10 Semester: 1

Availability: Available only to students in the first year of the Honours Programme.

Description: This module introduces students to the basic differences between quantitative and qualitative field techniques and to the theoretical and epistemological arguments that inform the choice to use one or the other or both. It discusses a range of qualitative field methods and offers practical experimentation with several. Students design and undertake a qualitative research project on a contemporary local issue. This involves independent field work and analysis of the information collected which is written up in an assessed report.

Class Hour: 2.00 - 4.00 pm Thursday.

Teaching: 20 hours of lectures, laboratories and fieldwork in total.

Assessment: Project Report = 100%

GE3031 Geographies of labour market behaviour

Credits: 15 Semester: 2

Availability: 2010-11

Description: This module focuses on understanding individual labour market outcomes and the functioning of regional (and national) labour markets. This field of study is traditionally dominated by (labour) economists, using economic theories based on utility maximizing behaviour of workers and their households. This module will explore these theories and offer additional and alternative explanations of labour market outcomes. It will be argued that geography is at the heart of understanding individual labour market outcomes as most individuals are severely restricted in their spatial flexibility. Contributions from critical human geography, economics and sociology will be combined to contribute to students' critical understanding of labour market behaviour on the local, regional, UK and European level.

Class Hour: 10:00 – 12:00 pm Wednesday

Teaching: 18 hours of lectures and seminars in total.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE3032 Urban Cultural Geography

Credits: 20 Semester: 1

Availability: 2009-10

Description: This module introduces current debates in urban cultural geography against the context of contemporary processes of globalization. "The City" is analysed both as a site in which a series of political-economic and socio-cultural practices play themselves out and as a space around which a variety of discourses are constituted. It is argued that "The City" must be understood as more than a static empirical object but is a dense site where multiple processes converge often in unexpected and contradictory ways. Module readings will be drawn from geography, cultural studies, and sociology and used to interrogate a variety of media including film, music, memoir and poetry/fiction.

Class Hour: 9:00-11:00 am Tuesday and Wednesday

Teaching: One two-hour lecture and one two-hour seminar.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GE3037 Population Studies I

Credits: 15 Semester: 1

Availability: 2010-11

Anti-requisite: GG3037

Description: The first part of this module aims to equip students to execute and understand a variety of measures and concepts which are the basis of all demographic research, including: measures of mortality and fertility; period and cohort analysis; stable and stationary populations; natural fertility. The second part examines the major transformation of European populations from 1750 onwards, with particular attention given to Scotland. Students are encouraged to explore the many debates surrounding the explanation of this important episode in order to enhance their understanding of the complex interrelationships between social and demographic variables.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: 16 hours of lectures and seminars and one laboratory in total.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

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GE3051 Environmental Management in Scotland

Credits: 15 Semester: 1
Availability: 2010-11

Description: This module focuses on current environmental management issues in Scotland. It presents the primary systems of land & resource management (e.g. forestry, agriculture & crofting, wildlife, freshwater resources, conservation), and examples of the ways in which these systems interact. The aim is to leave students with an informed conceptual framework for evaluating management proposals and their implications for environmental, economic and social change. A particular focus, employing topical case studies and a field visit, is the conflicts that arise as interest groups with contrasting philosophies & value systems compete to determine the future of Scotland's natural heritage within a devolved political framework.

Class Hour: 9.00 – 10:00 am Monday and 11.00 – 12:00 pm Wednesday.
Teaching: 16 hours of lectures or seminars and a one-day field visit.
Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE3060 Geographies of Imperialism and Colonialism I

Credits: 15 Semester: 1
Availability: 2010-11

Description: This module will survey modern European imperialism and colonialism from a broadly geographical perspective. Emphasis will be placed on the issues of possession: on the various ways in which Europeans imagined, explored, represented, and went about taking, settling and controlling non-European space. Arguments and examples will be drawn from different parts of the imperial world.

Class Hour: 12.00 noon and 2.00 pm Monday.
Teaching: 20 hours of lectures and seminars in total.
Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE3073 Geography of Health

Credits: 15 Semester: 1
Availability: 2009-10

Description: This module introduces the principal concerns of the geography of health, including the spatial distribution of diseases, disability and medical conditions, the relationship of health to environmental, social and cultural factors, and the organisation of health care services. It will cover general principles in the geography of health and also specific issues of contemporary political concern. It is primarily based on the contemporary experience of the United Kingdom and other Western societies, although there will be some discussion of the historical geography of health and of the geography of health in the developing world. The module will include practical elements, including consideration of data sets on the geography of health and of qualitative and quantitative methods of analysis.

Class Hour: 10.00 am – 12 noon Monday.
Teaching: 16 hours of lectures and seminars in total.
Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE3075 Environments and Human Behaviour

Credits: 15 Semester: 2
Availability: 2009-10

Description: This module will explore the relationship between behaviour and experience and the built and natural environment. It will introduce the theories that have been proposed to explain behaviour and explore their validity in a number of different contexts both 'normal' and 'extreme'. Specifically it will consider behaviour in relation to: building and town design, risk environments and disaster situations. It will also consider the nature of attractive land- and city-scapes. It will tackle research questions such as 'can crime be reduced through design' and 'does enforced safety behaviour actually reduce accidents and deaths'.

Class Hour: 3:00 – 5:00 pm Tuesday
Teaching: 16 hours of lectures and seminars in total.
Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE4014 Ideas and Methods in Geography II

Credits: 10 Semester: 2
Availability: Available only to students in the second year of the Honours Programme
Prerequisite: GE3004

Description: This module extends the work of GE3004 and encourages students to discuss the scope and diversity of geographical inquiry in preparation for the Ideas and Methods examination at the end of their two honours years. The module involves a series of lectures and seminars that will augment the understanding of theoretical, methodological and applied issues gained in the rest of the honours programme. Discussion will range across a variety of topics including geography as experimental science, geography and local government, research and relevant geographies, and geographical understandings of topical issues. Students will also be required to attend lectures on selected topics and staff-led seminars.

Class Hour: 11.00 am - 1.00 pm Friday.
Teaching: 20 hours of lectures and seminars in total.
Assessment: 3 Hour Examination = 100%

GE4018 Dissertation in Geography

Credits: 30 Semester: 1 (or Semester 2 for Joint Honours Students by arrangement with Geography Programme Coordinator)
Prerequisite: Available only to students who intend an Honours Degree in Geography.
Anti-requisites: GG4130

Description: Students select a topic connected with one of the 3000-level option modules in Geography, mount a research programme to investigate the topic, and write a dissertation on the work. The topic is selected during the second semester of the junior honours year; data are collected during the following vacation and the dissertation is written during the first semester of the second year of the Honours Programme. Each student is supervised by a member of the teaching staff who will ensure that the topic chosen is viable and advise students on data collection and analysis. The dissertation is 10,000 words in length.

Teaching: One lecture plus individual supervision.
Assessment: Dissertation = 100%

GE4019 Review Essay in Geography

Credits: 20 Semester: 2
Prerequisite: Available only to students in the second year of the Honours Programme.

Description: This module involves the student in isolating a particular geographical topic, not directly involved in a selected option module, conducting a bibliographic search on that topic and then presenting a critical review of the content of the material obtained from a reading of the relevant books and journal articles. The topic chosen arises from a student's own particular interests but is finalised in discussions with a tutor. The final report is 7,000 words in length.

Teaching: One lecture plus individual supervision.
Assessment: Essay = 100%

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GE4038 Population Studies II

Credits: 15 Semester: 2

Availability: 2010-11

Prerequisite: GE3037

Description: This module builds upon the expertise acquired in GE3037 Population Studies I (which is a pre-requisite) and applies it to analysis of contemporary population issues, including: the 'poverty trap'; mortality, fertility and economic-development; fertility, employment and attitudes to marriage; recent trends in mortality; ageing and the future of European populations. The final section of the module is devoted to a consideration of population policies in various parts of the world, including China and Singapore. It ends by asking whether Europe needs a population policy.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: 16 hours of lectures and seminars in total.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE4061 Geographies of Imperialism and Colonialism II

Credits: 15 Semester: 2

Availability: 2010-11

Prerequisite: GE3060

Description: This module will illustrate some of the general arguments about modern European imperialism and colonialism advanced in GG3060/GE3060. The themes considered include: North America and 'noble savage', Africa and 'the white man's burden', and Asia and the discourse of Orientalism. This module concludes with a discussion of whether we now live in a 'postcolonial' age.

Class Hour: 12.00 – 1:00 and 2.00 – 3:00 pm Monday.

Teaching: 16 hours of lectures and seminars in total.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GE4072 HIV/AIDS in Africa

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisites: Any GE3000 options module

Description: This module addresses the uneven global geography of the HIV/AIDS pandemic and its concentration in Africa. It examines why social scientific, not just biomedical, research is vital and explores the regionally specific dimensions of the virus's rapid spread in this context. The module also investigates the social, political and economic implications of HIV/AIDS for Africa's development. It concludes by looking towards future local and global initiatives that might help reduce transmission and ease the human suffering caused by HIV/AIDS in Africa. The module consists of an introductory and concluding lecture and a programme of student-led seminars.

Class Hour: 3.00 - 5.00 pm Monday.

Teaching: 16 hours of lectures and seminars in total.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

Geography – Geoscience (GG) Modules

GG3011 Introduction to Geographical Information Systems

Credits: 10 Semester: 1

Availability: Available only to students in the first year of their Honours Programme.

Description: This module aims to introduce how to acquire, store, analyse and display spatial digital data and to provide students with the skills necessary to perform standard data manipulation on a number of datasets with a variety of visualisation techniques. Topics will include: 1) an overview of the software and hardware available for handling digital data; 2) the structure and formats of digital data and how to interpolate and manipulate data; 3) 2D and 3D spatial analysis, including producing contoured and shaded relief maps of various datasets; and 4) overlaying multiple datasets on 2D and 3D data. The module will end with a small individual project that begins by building a G.I.S. project plan and incorporates a dataset chosen from one of a number of provided sources including both human and physical geography and geoscience.

Class Hour: 9.00 am - 12.00 noon Friday.

Teaching: One lecture and one two-hour practical class each week over 6 weeks.

Assessment: Continuous Assessment = 100%

GG3036 Periglacial Geomorphology

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: GE2011 and GE2012 or GS2011 and GS2012

Description: This module investigates landform development in past and present periglacial environments, with emphasis on geomorphic processes and environmental controls. Topics include: (i) permafrost and frost action processes; (ii) periglacial weathering; (iii) nivation and cryoplanation; (iv) the role of running water in permafrost environments; (v) solifluction; (vi) proglacial ramparts and rock glaciers; (vii) patterned ground and its significance; (viii) the periglacialiation of upland Scotland. Students may be required to attend a one-day field course.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: Two lectures per week plus two hours of group presentations.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3041 Quaternary Geomorphology of Scotland I

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: GE2011 and GE2012 or GS2011 and GS2012

Description: This module provides an introduction to the chronology and significance of Quaternary events in Scotland, and of the techniques used to establish past environmental conditions. Topics covered include: (i) pre-Quaternary landscape evolution; (ii) the Quaternary timescale; (iii) pre-Devensian glacials and interglacials; (iv) the Devensian glacial stage; (v) the Loch Lomond Stadial: glaciation, periglacialiation and climate; (vi) sea-level changes; (vii) Holocene landscape changes.

Class Hour: 10.00 am - 12.00 noon Thursday.

Teaching: Two lectures each week.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

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GG3052 Coastal Environments and Sea Level Change

Credits: 15 Semester: 2

Prerequisites: GE2011 and GE2012 or GS2011 and GS2012

Description: Processes affecting coastal lowlands are considered at different scales from the global to the epicontinental sea and to the local scale. The role of sea-level changes over different time periods is assessed as a fundamental factor in understanding the history and evolution of coasts. Examples are taken from landforms of unconsolidated sediments, particularly sand dunes, saltmarshes, deltas, lagoon and tidal flats. Case studies will be given from Brazil, Bangladesh, India, Southern China and North-west Europe.

Class Hour: 11.00 am - 1.00 pm Monday.

Teaching: Sixteen hours plus a field class.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3056 Glaciers and Glacial Processes I

Credits: 15 Semester: 1

Availability: 2010-11

Prerequisites: GE2011, GE2012

Description: This module focuses on glaciers in all their diversity of form and dynamics - how they form, flow, and fluctuate, the complex ways in which they interact with the world's climate system, and the processes by which they modify the landscape through erosion.

Class Hour: 10.00 am Monday and 2.00 pm Monday.

Teaching: Sixteen hours of lectures or seminars.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3067 Oceans and Climate

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisites: GE2011 and GE2012 or GS2011 and GS2012

Description: The aim of the module is to provide an understanding of the role played by oceans in the global climate system. Particular objectives are: (1) to foster understanding of changes in oceanic and climatic circulation, the possible mechanisms for such changes, and wider implications in terms of past, present and future global and regional climates; and (2) to provide practical experience of some research methods employed to determine oceanographic changes.

Class Hour: 11.00 am - 1.00 pm Monday.

Teaching: Two classes.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3069 Climate and Weather Systems

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: GE2011 and GE2012 or GS2011 and GS2012

Description: This module covers the behaviour of the earth's atmosphere and its circulation at a range of scales, from small-scale processes operating within clouds, up to the global climate system. It aims to strike a balance between description (using a wide selection of satellite images, photographs, and videos) and explanation (using in-class demonstrations of physical processes wherever possible). Physical laws will be introduced to describe basic concepts such as the behaviour of gases and the motion of the atmosphere.

Class Hour: 3.00 - 5.00 pm Monday & 9.00 - 10.00 am Wednesday

Teaching: 16 hours of lectures and seminars.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3082 Sedimentary Environments and Depositional Frameworks

Credits: 15 Semester: 2
Prerequisites: GS2011 & GS2012

Description: This module provides a training in critical examination and interpretation of the Earth's sedimentary rock record. The module teaches the skills and techniques for observing, recognising, recording, and assessing sedimentological and stratigraphic data. The major sedimentary depositional environments and their characteristic stratal frameworks and facies are presented within a basinal setting. The practical skills of section logging and facies interpretation are developed principally in the field setting.

Class Hour: To be arranged.

Teaching: 13 lectures, 3 seminars, at least 4 days of field study.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GG3089 Environmental Geoscience

Credits: 15 Semester: 1
Prerequisites: GS2011, GS2012

Co-requisites: GG3102 or GS3012

Description: The module focuses on methodologies used for solving problems facing environmental geoscientists, particularly in waste disposal, ground contamination, soil erosion, sustainability of resources and land conservation. The necessary theoretical background in geotechnical engineering, environmental geophysics, hydrogeology and environmental geochemistry is supplemented with training in remote investigation, particularly geophysics. Case histories are used extensively.

Class Hour: To be arranged.

Teaching: 17 lectures, 15 hours of laboratory classes, two or more field classes.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GG3090 Palaeontology, Palaeoecology & Palaeoclimatology

Credits: 15 Semester: 2
Prerequisites: Admission to Honours Programme in Geography, Sustainable Development or Geosciences

Description: The module is designed to train students to identify and interpret Earth's fossil record. Topics to be covered will include an overview of biospheric evolution, identification of key fossils of the major marine invertebrate families and an introduction into micro-palaeontology techniques and identification. The aim is to provide students with a framework for classifying fossils and understanding their utility in environmental reconstructions and usefulness as biogeochemical indicators of Earth's changing environments and climate through time. Work will involve hands-on practicals, field excursions and laboratory exercises.

Class Hour: To be arranged.

Teaching: Two lectures and one 3 hour practical.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

GG3093 Political Ecology: Nature, Power and Development

Credits: 15 Semester: 1
Availability: 2009-10 only

Prerequisites: Normally GE2011 and GE2012

Description: Political ecology is the study of how human-environment relationships are mediated by political, economic and social change. Political ecology draws our attention to the structures of inequality bound up with ecological degradation at different spatial scales. This module provides an overview of the concepts, methods and literature on political ecology, and geography's pivotal place in this interdisciplinary field of study. Emphasis will be placed on debates within this field over the uneven geography of capitalism, the social production of nature, and environmental discourse, activism and governance. Such debates will be explored using case studies and group work on specific ecological problems.

Class Hour: 12.00 noon – 1.00 pm Monday and Thursday

Teaching: One lecture and one seminar

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

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GG3094 Geographies of Immigration and Refuge

Credits: 15 Semester: 1
Availability: 2009-10 only
Prerequisites: Normally GE2011 and GE2012

Description: This module aims to give students a conceptual and geographical grasp of issues of immigration and asylum within the UK. The module considers the political salience of global migration, and how debates over immigration have been framed, represented and experienced geographically. Emphasis is placed on the division between nationalist sentiments and more cosmopolitan outlooks on migration, and on: (a) how issues of immigration are represented in the media and government documents; (b) how such representations impact the lives of the immigrants and refugees; (c) how Britain is constructed as a 'home' for newcomers; and (d) how a more welcoming Britain might be constructed.

Class Hour: To be arranged.

Teaching: One lecture and one seminar

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3095 Rivers, Floodplains and Management

Credits: 15 Semester: 1
Availability: 2010-11
Prerequisites: GE2011 and GE2012 or GS2011 and GS2012

Description: Rivers and their floodplains are central to human populations and ecology, but must be carefully managed to maintain their benefits whilst minimizing risks associated with water supply, water quality and flooding. This module provides an introduction to fluvial hydrology and geomorphology in the context of natural physical processes and their interaction with river management. It will focus on floods, sediment/contaminant transport, sedimentation, and floodplain evolution in contemporary settings. The module will incorporate one practical field trip in Scotland. In addition, it will highlight important case studies of river management from around the globe.

Class Hour: To be arranged.

Teaching: 20 hours of lectures, seminars and tutorials, plus a one field class.

Assessment: Continuous Assessment = 100%

GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change

Credits: 15 Semester: 2
Availability: 2010-11
Prerequisites: GE2011/ GE2012 or GS2011/GS2012 or SD2001 or BL2105. Familiarity with basic chemistry and mathematics is desirable, but not essential.

Description: Terrestrial ecosystems play a central role in modulating the flow of energy and materials in the Earth system, regulating trace gas exchange with the atmosphere, the transfer of carbon and nutrients with rivers and oceans, and the natural attenuation of pollutants. Understanding how terrestrial ecosystems function is crucial to addressing problems such as climate change, stratospheric ozone loss, and environmental pollution. This module will develop principles of ecosystems ecology and biogeochemistry, focusing on major elemental cycles, soil processes, and human activity. In addition to students in Geography and Geosciences, this module also welcomes students from Sustainable Development, Biology and Chemistry.

Class Hour: 2.00 pm Tuesday, 12.00 noon Wednesday, 11.00 am Thursday.

Teaching: Two lectures and occasional tutorials.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

GG3097 The Economic Geography of Homes and Neighbourhoods

Credits: 15 Semester: 2
Availability: 2010-11
Prerequisites: Normally GE2011 and GE2012

Description: This module aims to give students a conceptual grasp of 'houses' and 'neighbourhoods', and the key systems that produce, finance and modify them. Emphasis will be given on how housing and neighbourhoods choices shape and are shaped by places, and have environmental consequences. The public policy outcomes that arise from the workings of housing systems are also explored. The renewal of poorer neighbourhoods is given emphasis, and the module draws on evidence and examples from outside the UK, specifically Canada, the USA and Australasia.

Class Hour: 2.00 - 4.00 pm Thursday
Teaching: 16 hours of lectures and seminars.
Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG3102 Analytical Methods for Physical Geography

Credits: 15 Semester: 1
Prerequisites: GS2011, GE2011, GS2012, GE2012
Anti-requisite: GS3012

Description: The module will allow the student to understand the principles behind, and the practical application of, analytical methods in Physical Geography. The first sessions will constitute short lectures followed by problem-based practicals in which the student will use the method taught. The examples chosen will reflect the individual student's background and assessment will be based on short practical reports. Sessions 8-10 allow the student to research an unusual analytical method, relevant to his/her own interests. In session 10, the student will review his/her findings in a poster presentation to peers. Peer review will constitute an important part of this session.

Class Hour: 12.00 – 2.00 pm Monday
Teaching: Lectures and practical classes on a fortnightly cycle.
Assessment: Continuous Assessment = 100%

GG3110 Applied Environmental Geoscience Field Methods

Credits: 15 Semester: 2
Prerequisites: GS3002, GG3089, GS3012, GS3090

Description: This module forms the introduction to methodologies and training in applied environmental reconstruction techniques. It will provide first-hand experience in field examination of geotechnical, environmental and industrial sites in the UK and the methodologies used to solve geo-environmental problems. The module enables hands-on training in using coring tools, hydrological sampling methods, onshore to nearshore marine geophysical surveying (seismic refraction, magnetometry, electrical and electromagnetic methods for land surveys; bathymetric sidescan, acoustic ground discrimination, sub-bottom profiling for lacustrine and marine surveys) and remote sensing applications.

Class Hour: To be arranged.
Teaching: Fortnightly seminar and 2 one-week field excursion/courses.
Assessment: Continuous Assessment = 100%

GG4042 Quaternary Geomorphology of Scotland II

Credits: 15 Semester: 2
Availability: 2009-10
Prerequisites: GG3041

Description: The aim of this module is to explore the role of climatic change during the Quaternary in producing the complex natural environment of Scotland today. Knowledge of Quaternary history is important in that it provides direct evidence of the rate at which natural processes can occur. The geomorphological evolution of selected areas of Scotland will be examined by a series of regional studies of their Late Quaternary history. All students will select a particular region and will write a report on the Quaternary geomorphology of the area and present the results of their investigations, in seminar format, to the remainder of the class.

Class Hour: 10.00 am - 12.00 noon Thursday.
Teaching: Two lectures each week.
Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

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GG4057 Glaciers and Glacial Processes II

Credits: 15 Semester: 2

Availability: 2010-11

Prerequisites: GG3056

Description: This module, building on the foundations laid in GG3056, focuses on the interactive links between glacial processes, and the landforms, landscapes and sediments that those processes produce, whether under the ice, on land around glaciers, or in aquatic settings around ice margins. A theme running through the module is the way in which studies of the products of glacial action can illuminate glacial processes, and the converse - how studies of glacial processes facilitate the interpretation of glacial landforms and sediments.

Class Hour: 10.00 am Monday and 2.00 pm Monday.

Teaching: Sixteen hours of lectures or seminars.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG4058 Advanced Glaciology

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: Normally GE3005 or GS3002, GG3056 or GG4057

Description: Glacier response to climate change depends on interactions between the cryosphere and the atmosphere, and internal glacial dynamic processes. This module focuses on the recent behaviour of the world's glaciers and ice sheets, with particular emphasis on key physical processes and current research problems. Topics to be covered include: mass balance; hydrology; the speed-up and shutdown of ice streams; ice shelf collapse; glacier surges; and glacier-lake outburst floods. The module will take a quantitative approach to understanding these phenomena, and will cover the fundamentals of glacier physics and numerical modeling.

Class Hour: 11.00 am – 1.00 pm Thursday & 12.00 noon – 1.00 pm Wednesday.

Teaching: One lecture and one practical each week

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG4090 Late Holocene Palaeoclimatology - Studying Climate Change for the last 2000 years

Credits: 15 Semester: 2

Availability: 2010-11

Description: The current scientific consensus is that recent Global Warming is outside the range of natural variability when compared to the last 10000 or even 20000 years. This module addresses how the current consensus view has been derived with a critical focus (addressing both strengths and limitations) on the key palaeoclimate proxy sources (e.g. ice cores, tree-rings, corals, speleothems, lake/marine sediments and historical documents) used to reconstruct and understand climate for the last two millennia. The module ends with a critical assessment of the "myths" often cited by the skeptical community to weaken the consensus view.

Class Hour: To be arranged

Teaching: Two classes each week.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

GG4110 Environmental Geoscience Mapping & Analysis

Credits: 15 Semester: 1

Prerequisites: GG3002, GS3004, GG3082, GG3089, (either GS3012 or GG3102), GS3090

Description: This module is designed to provide training in a variety of mapping and geochemical analytical techniques of utility to solving geo-environmental problems. Mapping exercises will include use of aerial photographs, thematic mapping and GIS and application of applied geophysical surveying techniques. Analytical techniques will focus on environmental problems and include x-ray diffraction, grain-size analysis and the compositional analysis of natural waters.

Class Hour: To be arranged.

Teaching: Lectures and practical classes

Assessment: Continuous Assessment = 100%

GG4120 Environmental Geoscience Case Studies & Presentations

Credits:	15	Semester:	1
Prerequisites:	GG3002, GS3004, GG3082, GG3089, (either GS3012 or GG3102), GS3090		
Description:	This module forms the introduction to the fundamental skills required to assess, write-up and present the outcome of studies investigating and understanding geo-environmental problem solving and issues. The module centres on student-defined and led analyses of case studies relevant to industry and the geo-environmental science field. Students will present their results in a professional-style group presentation setting and industry experts will be invited to participate in and discuss the evaluation of the style and quality of the presentations.		
Class Hour:	To be arranged.		
Teaching:	6 two-hour seminars		
Assessment:	Continuous Assessment = 100%		

GG4130 Research Dissertation in Physical Geography and Geoscience

Credits:	45	Semester:	Whole Year
Prerequisites:	Admission to BSc Honours programme in Physical Geography and Geoscience		
Anti-requisites:	GE4018, GS4008		
Description:	Students select a research topic in Physical geography and Geoscience, design a research programme to investigate this topic, undertake fieldwork to collect appropriate data, analyse the data and present their results orally and as a dissertation up to 10,000 words in length. The topic is selected and approved in the second semester of the Junior Honours year; fieldwork and data collection are carried out during the following vacation and the dissertation is submitted in the second semester of the Senior Honours year. Students are supervised by teaching staff but work largely independently.		
Teaching:	Individual supervision by member(s) of teaching staff		
Assessment:	Research proposal = 5%, Oral Presentation = 10%, Dissertation = 85%		

Geoscience (GS) Modules

GS3002 Data Analysis and Numerical Methods in Geoscience

Credits:	10	Semester:	1
Prerequisites:	GS2011 & GS2012		
Anti-requisite:	GE3005		
Description:	This module is designed to give students an introduction to the handling, presentation and analysis of numerical data within the context of Geoscience. Topics will include (i) understanding data types, (ii) data presentation and basic descriptive statistics, (iii) probability, (iv) hypothesis testing using parametric statistics, (v) correlation and regression, (vi) introduction to numerical methods in Geoscience. The MINITAB statistical package will be used to apply these techniques to the analysis of large data sets.		
Class Hour:	Lecture: 2.00 - 3.00 pm Friday, Practical: 3.00 - 5.00 pm Friday, Revision Practical 1 hour (TBA)		
Teaching:	One lecture and one practical class each week		
Assessment:	Continuous Assessment = 100%		

GS3004 Field Mapping and Map Interpretation

Credits:	30	Semester:	Whole Year
Prerequisites:	GS2011 & GS2012		
Description:	This module will train students to observe, record and interpret geological features in the field and on maps. Emphasis will be placed on developing models from observations and devising tests of these models. Specifically, students are trained to think in three spatial dimensions as well as time. As well as field and interpretive skills, students will develop the key skills of logistical organisation, team working and presentation of reports.		
Class Hour:	To be arranged.		
Teaching:	Two field courses of 14 and 7 days respectively, plus 5 three hour laboratory classes.		
Assessment:	Continuous Assessment = 100%		

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GS3012 Analytical Methods in Geoscience

Credits: 10 Semester: 1
Prerequisites: GS2011 & GS2012
Anti-requisite: GG3102

Description: This module covers the principles behind, and the practical application of, common analytical methods used in the Geosciences. The module begins with the design of field sampling strategies and their application in students collecting environmental and geological materials. The theory of some important analytical methods is then presented and students are given the opportunity to apply some of these in practice on their own materials under technical supervision. Emphasis will be placed on estimating precision and accuracy, and on methods of data presentation and interpretation. Each student will have an opportunity to research an unusual analytical method, relevant to their own particular interests.

Class Hour: To be arranged.
Teaching: One lecture, one 2 hour tutorial, one 2 hour practical class every fortnight.
Assessment: Continuous Assessment = 100%

GS3081 Earth Internal Processes

Credits: 15 Semester: 1
Prerequisites: GS2011 & GS2012

Description: This is a core module in Geoscience delivered early in the honours programme providing a framework for interpreting the major processes acting within the Earth's crust and mantle. The module serves as preparation for a range of optional modules on related themes, and will provide some theoretical and practical preparation for honours dissertations involving igneous petrology, metamorphic petrology and/or structural geology.

Class Hour: 11.00 am - 12.00 noon Tuesday and Thursday
Teaching: 19 lectures, 28 hours of practical, two or more days of field training.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GS3090 Introduction to Geographical Information Systems (GIS) in Geosciences

Credits: 10 Semester: 1
Prerequisites: GS2011 & GS2012
Anti-requisite: GG3011

Description: This module introduces the concepts and methodologies of acquiring, storing, analysing and displaying digital data in a spatial context. Topics include an overview of software and hardware requirements and developments, data sources, structure, and models, spatial analysis and visualisation techniques. Students will work within ArcView 3.2 and develop the skills necessary to design a GIS project with a variety of primary and secondary datasets. The laboratory exercises expose students to a wide variety of digital data, their uses and application in geoscience and their sources.

Class Hour: 9.00 am – 12.00 noon Friday.
Teaching: 1 lecture and a two hour practical.
Assessment: Continuous Assessment = 100%

GS3099 Field Methods in Geosciences

Credits: 30 Semester: 2
Prerequisites: Must be studying Geoscience at an overseas university
Anti-requisite: GS3004

Description: This module is designed exclusively for non-graduating overseas undergraduate students seeking advanced training in geological field methods. It consists of hands-on experience honing observational and mapping skills by participating in highly focused residential and one-day excursions and associated laboratory classes. The module takes full advantage of the University's location close to some classic geological locations, normally including the Moine thrust system, the Buchan and Barrovian metamorphic zones, the Girvan-Ballantrae ophiolite and the Hebridean Tertiary plutonic and volcanic centres.

Class Hour: none – field-based module
Teaching: Occasional lectures, tutorials and practicals
Assessment: Continuous Assessment = 100%

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GS4005 Honours Field Excursion

Credits:	10	Semester:	Summer vacation between JH & SH
Prerequisites:	GS2011, GS2012 and admission to Honours Geoscience		
Description:	Building on the field training of JH this module is designed to develop the field observation and interpretation skills of collecting, recording, interpreting and synthesising data in the field. The field course will be thematic and examine all aspects of a region using an integrated approach. Theme and location may vary but the excursion will generally be based within a well-exposed orogenic belt with the aim of traversing from the foreland to the interior.		
Class Hour:	not applicable		
Teaching:	About 12 days of field-based instruction and exercises		
Assessment:	Continuous Assessment = 100%		

GS4006 Research Review and Presentations

Credits:	10	Semester:	1
Prerequisites:	GS2011, GS2012 and admission to Honours Geoscience		
Description:	The student selects a particular geoscience topic, one that is not directly dealt with in a subject module, conducts literature and web research and then writes a critical review of ca. 3500 words. The topic is also reported in the form of both an illustrated poster, and in a short seminar followed by questions. There will be a short course on giving verbal presentations.		
Class Hour:	not applicable.		
Teaching:	One lecture and four class meetings.		
Assessment:	Continuous Assessment = 100%		

GS4007 Map Interpretation and Remote Sensing

Credits:	10	Semester:	1
Prerequisites:	GS2011, GS2012 and admission to Honours Geoscience		
Description:	This module continues the training in the interpretation of the geology of a region as represented on a geological map. In addition, students will be trained in the techniques of interpreting remotely sensed images of the Earth's surface by aerial photography and satellite imagery.		
Class Hour:	To be arranged.		
Teaching:	10 laboratory sessions		
Assessment:	Continuous Assessment = 100%		

GS4008 Research Dissertation

Credits:	45	Semester:	Whole Year
Prerequisites:	GS2011, GS2012 and admission to Honours Geoscience		
Anti-requisite:	GG4130		
Description:	An individual research project which allows the student to pursue in depth a topic of personal interest. The student works largely independently of supervision and has the opportunity to demonstrate individuality, initiative and enterprise. Skills of planning and executing research are learnt, as well as the ability to work independently, and present the results orally and in dissertation form (up to 10,000 words).		
Class Hour:	Not applicable.		
Teaching:	none		
Assessment:	Dissertation = 100%		

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GS4009 Joint Honours Research Project

Credits: 20 Semester: Whole Year

Prerequisites: GS2011, GS2012 and admission to Honours Geoscience

Description: An individual research project which allows the student to pursue in depth a topic of personal interest. The student works largely independently of supervision and has the opportunity to demonstrate individuality, initiative and enterprise. Skills of planning and executing research are learnt, as well as the ability to work independently, and present the results orally and in dissertation form (up to 5,000 words).

Class Hour: not applicable.

Teaching: none

Assessment: Dissertation = 100%

GS4010 Joint Honours Research Review

Credits: 5 Semester: 1 or 2

Prerequisites: GS2011, GS2012 and admission to Honours Geoscience

Description: The student identifies a particular geoscience topic, one that is not directly dealt with in a subject module, conducts literature and web research and then writes a critical review.

Class Hour: Not applicable.

Teaching: none

Assessment: Continuous Assessment = 100%

GS4083 Granites and Basalts

Credits: 15 Semester: 2

Availability: 2010-11

Prerequisites: GS2011, GS2012, GS3081 *and* admission to Honours Geoscience or Honours Geography

Description: The Earth's crust is largely created by acid and basic magmatism. The module explores the nature of that magmatism, the petrography and geochemistry of the rocks created, and the petrogenesis and evolution of the magma. The petrological characteristics of the continental crust and of the upper mantle, the principal sources of acid and basic magmas, are examined in detail for the influence which these have on the magmas created by partial melting.

Class Hour: To be arranged.

Teaching: 18 lectures, 15 hours of laboratory work, 18 hours of field study.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GS4084 Composition of the Solid Earth

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisites: GS2011, GS2012, GS3081 and admission to Honours Geoscience or Honours Geography

Description: The lithosphere is a major geochemical system that operates on a range of scales from sub-microscopic (e.g. the behaviour of atoms in individual crystals), to mesoscopic (e.g. the movement of atoms between crystals in rocks), to macroscopic (e.g. the creation of magma above a subduction zone). This module develops an understanding of aspects of lithosphere composition including mineral composition and its determination, mineral structures and how they respond to changes in the physical and chemical environment, the composition of the crust and the relationship between rocks, minerals and fluids, paying particular attention to the crustal-fluid processes leading to the creation of ore deposits.

Class Hour: To be arranged.

Teaching: Total of 32 hours lectures and laboratory classes.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GS4085 Geodynamics

Credits: 15 Semester: 2

Prerequisites: [GS2011, GS2012,]-to get into honours you must have done these. GS3081 *and* admission to Honours Geoscience or Honours Geography

Description: A study of the geodynamic evolution of Earth's crust and associated atmosphere and hydrosphere since the Archaean. The module contrasts geodynamic evolution in the Archaean, Proterozoic, Palaeozoic and Mesozoic using a number of case studies, including examples visited in the field. The module develops skills of geodynamic interpretation, field observation, report writing and oral presentation.

Class Hour: To be arranged.

Teaching: 12 lectures, 1 laboratory class, 2 days in the field

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GS4086 Tectonics and Structural Geology

Credits: 15 Semester: 1

Prerequisites: GS2011, GS2012, GS3081 and admission to Honours Geoscience or Honours Geography

Description: This module analyses deformation at different crustal depths and within different tectonic environments, as applied to sedimentary, metamorphic and igneous rocks. Scenarios are developed using global examples and particular case studies from the Caledonides, some of which will be examined in the field. The module develops skills of structural and tectonic interpretation, field and laboratory observation, and report writing.

Class Hour: To be arranged.

Teaching: 12 lectures, 2 laboratory classes, two or more days in the field

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

GS4088 Petroleum Exploration and Geophysics

Credits: 15 Semester: 1

Prerequisites: GS2011, GS2012 *and* admission to Honours Geoscience or Honours Geography

Description: The fundamental concepts, techniques and practices of the hydrocarbon exploration industry are presented. Students will gain a thorough understanding of the geoscience of petroleum exploration, particularly using geophysical methods, and a working knowledge of modern concepts in oil and gas geology.

Class Hour: To be arranged.

Teaching: 17 lectures, 15 hours laboratory classes, field classes

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

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ID4441 Combined Chemistry and Geoscience Research Project

Credits:	40	Semester:	both
Prerequisites:	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geoscience		
Anti-requisites:	CH4442-CH4448, CH5441		
Description:	The research project at Level 4000 for Chemistry and Geoscience students only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised jointly by members of the academic staff in Chemistry and Geoscience.		
Class Hour:	Two days per week.		
Teaching:	Reflection, laboratory work, library work, written and oral presentation preparation.		
Assessment:	Continuous Assessment = 100%		

School of History

Including: Arabic, Mediaeval, Modern and Scottish History

(see also Ancient History within the Classics section)

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours):</p> <p>Arabic and Art History (European & North American Art), Economics, English*, Film Studies, French^, German^, Hebrew, International Relations, Italian^, Latin, Management, Mediaeval History, Modern History, Philosophy, Social Anthropology, Spanish^.</p> <p>^ available also as ‘With Integrated Year Abroad Degrees’</p> <p>(this programme applies to entrants before 2007-08)</p> <p>* -Timetable clash means 2000-level English must be taken in First year to do this combination.</p>	<p>Arabic element of Joint Degrees (M.A. Honours):</p> <p>Level 1: 40 credits comprising AR1001 and AR1002.</p> <p>Level 2: 60 credits comprising passes at 11 or better in AR2001 and AR2002 and a pass in AR2003.</p> <p>Level 3: 60 credits from AR3201 - AR3999.</p> <p>Level 4: At least 30 credits from AR4201 - AR4995.</p>
<p>(M.A. Honours):</p> <p>Arabic and Art History (European & North American Art), Economics, English*, Film Studies, French^, German^, Hebrew, International Relations, Italian^, Latin, Management, Mathematics, Mediaeval History, Modern History, Philosophy, Social Anthropology, Spanish^.</p> <p>^ available also as ‘With Integrated Year Abroad Degrees’</p> <p>(this programme applies to entrants after 2007-08)</p> <p>* -Timetable clash means 2000-level English must be taken in First year to do this combination.</p>	<p>Arabic element of Joint Degrees (M.A. Honours):</p> <p>Level 1: 40 credits comprising AR1001 and AR1002</p> <p>Level 2: 40 credits comprising AR2001 and AR2002</p> <p>Entry to Level 3 of the degree programme requires passes at 11 or better in both AR2001 and AR2002</p> <p>Level 3: 60 credits from AR3201 - AR3999.</p> <p>Level 4: At least 30 credits from AR4201 - AR4995.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Arabic and Middle East Studies</p> <p>(this programme applies to entrants before 2007-08)</p>	<p>Arabic and Middle East Studies Degree:</p> <p>Level 1: 80 credits comprising AR1001, AR1002 and either IR1005 and IR1006 or ME1001 and (ME1002 or ME1004) or MO1005 and MO1006.</p> <p>Level 2: 80 credits comprising passes at 11 or better in AR2001, AR2002, AR2003 and any one of IR2004, ME2001, ME2004, and MO2006.</p> <p>Level 3: at least 60 credits from AR3201 - AR3999, and at least another 30 from IR3109, ME3203, ME3228, ME3229, ME3230, MO3215, MO3322, MO3327.</p> <p>Level 4: At least 90 credits from AR4205, AR4232, AR4235, AR4251, AR4999, IR4506, IR4507, IR4510, IR4520, IR4099, ME4803, ME4812, HI4999, MO4945, MO4957 including at least 30 credits from AR4201 - AR4295, but not including more than one of AR4999, IR4099, HI4999.</p>
<p>(M.A. Honours): Arabic and Middle East Studies</p> <p>(this programme applies to entrants after 2007-08)</p>	<p>Arabic and Middle East Studies Degree:</p> <p>Level 1: 80 credits comprising AR1001, AR1002, ME1004 and any one of IR1005, IR1006, ME1001, MO1005 and MO1006.</p> <p>Level 2: 80 credits comprising AR2001, AR2002, MO2007 and any one of IR2004, ME2001, ME2004, and MO2006.</p> <p>Entry to Level 3 of the programme requires passes at 11 or better in any 3 of AR1001, AR1002, ME1004, AR2001, AR2002 and MO2007, one of which must be in AR2002 and another of which may be AR2001 or MO2007.</p> <p>Level 3: at least 60 credits from AR3201 - AR3999, and at least another 30 from IR3109, ME3203, ME3228, ME3229, ME3230, MO3215, MO3322, MO3327.</p> <p>Level 4: At least 90 credits from AR4205, AR4232, AR4235, AR4251, AR4999, IR4506, IR4507, IR4510, IR4520, IR4099, ME4803, ME4812, HI4999, MO4945, MO4957 including at least 30 credits from AR4201 - AR4295, but not including more than one of AR4999, IR4099, HI4999.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours) History</p> <p>(this programme applies to entrants before 2007-08)</p>	<p>Single Honours History Degree:</p> <p>Level 1: At least 40 credits from AN1001, AN1002, ME1001, (ME1002 or ME1004), MO1005, MO1006, SC1001, SC1002 or SC1004.</p> <p>Level 2: At least 40 credits from AN2001, AN2002, ME2001, ME2004, (MO2005 or MO2007), MO2006, SC2001, SC2002 or SC2004.</p> <p>Entry to Level 3 of this degree requires that the Level 1 and Level 2 requirements also comply with the following:</p> <p>Three of the passes in the 1000-level and 2000-level modules must be at 11 or better, two of which must be in 2000-level modules.</p> <p>These passes must be in at least two of the following periods (i) prior to AD500 (AN1001, AN1002, AN2001, AN2002); (ii) AD500 – 1500 (ME1001, (ME1002 or ME1004), ME2001, ME2004, SC1001); (iii) post-1500 (MO1005, MO1006, (MO2005 or MO2007), MO2006], SC1002, SC2001, (SC2002 or SC2004).</p> <p>At least 80 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 150 credits chosen from AN4103-AN4998, ME3006 - ME3450, MO3001 – MO3711, SC3003 - SC3045; subject to the constraints that:- (i) at least 60 credits must be chosen from each of two historical periods: (a) the period before AD 500; (b) the period AD 500 - AD 1500; (c) the period after AD 1500; (ii) not more than 120 credits may be chosen from the Scottish History group; (iii) not more than 120 credits may be chosen from modules taught by any one member of staff.</p> <p>Level 4: 30 credits chosen from AN4999, HI4999, MO4998 or ; 60 credits chosen from ME4705 - ME4905, MO4901 - MO4962, SC4107 - SC4113; plus an additional 30 credit 3000-level module listed under Level 3 Requirements above.</p> <p>Other Information:</p> <p>Subject to the approval of the Honours Adviser, 30 credits taken in another subject at Honours level may be substituted for one module.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours) History</p> <p>(this programme applies to entrants after 2007-08)</p>	<p>Single Honours History Degree:</p> <p>Level 1: At least 40 credits from AN1001, AN1002, ME1001, ME1004, MO1005, MO1006,.</p> <p>Level 2: At least 60 credits from AN2002, AN2003, ME2001, ME2004, MO2006, MO2007, SC2003, SC2004.</p> <p>Entry to Level 3 of this degree requires that the Level 1 and Level 2 requirements also comply with the following:</p> <p>The three 2000-level module passes must be at 11 or better Passes at Level 1 and Level 2 must be in at least two of the following periods (i) prior to AD500 (AN1001, AN1002, AN2002, AN2003); (ii) AD500 – 1500 (ME1001, ME1004, ME2001, ME2004, SC2003); (iii) post-1500 (MO1005, MO1006, MO2006, MO2007, SC2004).</p> <p>At least 40 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 150 credits chosen from AN4103-AN4998, ME3006 - ME3450, MO3001 – MO3711, SC3003 - SC3045; subject to the constraints that:- (i) at least 60 credits must be chosen from each of two historical periods: (a) the period before AD 500; (b) the period AD 500 - AD 1500; (c) the period after AD 1500; (ii) not more than 120 credits may be chosen from the Scottish History group; (iii) not more than 120 credits may be chosen from modules taught by any one member of staff.</p> <p>Level 4: 30 credits chosen from AN4999, HI4999; 60 credits chosen from ME4705 - ME4905, MO4901 - MO4962, SC4107 - SC4113; plus an additional 30 credit 3000-level module listed under Level 3 Requirements above.</p> <p>Other Information: Subject to the approval of the Honours Adviser, 30 credits taken in another subject at Honours level may be substituted for one module.</p>
<p>(M.A. Honours): Mediaeval History & Archaeology</p> <p>(this programme applies to entrants before 2008-09)</p>	<p>Mediaeval History & Archaeology Degree:</p> <p>Level 1: See Level 2.</p> <p>Level 2: 60 credits comprising passes in any 3 of ME1001, (ME1002 or ME1004), ME2001, ME2004, with two passes of 11 or better, one of which must be in ME2001 or ME2004; and at least 60 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 30 credits comprising AN3020, plus 60 credits from AN4117, AN4125, AN4145, ME3012, ME3211, ME3216, ME3218, ME3227, ME3411, ME3418, SC3025, AN4121, AN4127, AN4130, AN4132, CL4424, plus an additional 30 credit 3000-level Mediaeval History module.</p> <p>Level 4: 30 credits comprising ME4998; 60 credits chosen from ME4707- ME4905; plus an additional 30 credit 3000-level Mediaeval History module.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Mediaeval History & Archaeology</p> <p>(this programme applies to entrants after 2009-10)</p>	<p>Mediaeval History & Archaeology Degree: Level 1: See Level 2.</p> <p>Level 2: 80 credits comprising passes in any 4 of ME1001, ME1004, ME2001, ME2004, SC2003, with two passes of 11 or better, one of which must be in ME2001, ME2004 or SC2003; and at least 40 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 30 credits comprising AN3020, plus 60 credits from AN4117, AN4125, AN4145, ME3012, ME3211, ME3216, ME3218, ME3227, ME3411, ME3418, SC3025, AN4121, AN4127, AN4130, AN4132, CL4424, plus an additional 30 credit 3000-level Mediaeval History module.</p> <p>Level 4: 30 credits comprising ME4998; 60 credits chosen from ME4707- ME4905; plus an additional 30 credit 3000-level Mediaeval History module.</p>
<p>(M.A. Honours): Mediaeval History</p> <p>(this programme applies to entrants before 2008-09)</p>	<p>Single Honours Mediaeval History Degree: Level 1: See Level 2.</p> <p>Level 2: 60 credits comprising passes in any 3 of ME1001, (ME1002 or ME1004), ME2001, ME2004, with two passes of 11 or better, one of which must be in ME2001 or ME2004; and at least 60 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 120 credits chosen from ME3012 - ME3450; AR3211, AR4223; SC3023 - SC3028; MO3012, MO3026.</p> <p>Level 4: 30 credits comprising HI4999; 60 credits chosen from ME4707 - ME4905, SC4107, SC4110; and a further 30 credits chosen from ME3002 - ME3450; AR3211; MO3012, MO3026; SC3023 - SC3028.</p> <p>Other Information: The following additional constraints apply: (i) not more than 120 credits may be chosen from modules taught by any one member of staff; (ii) Subject to the approval of the Chairperson of the Degree Committee, 30 credits taken in another subject at Honours level may be substituted for one 30-credit module.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Mediaeval History</p> <p>(this programme applies to entrants after 2009-10)</p>	<p>Single Honours Mediaeval History Degree:</p> <p>Level 1: See Level 2.</p> <p>Level 2: 80 credits comprising passes in any 4 of ME1001, ME1004, ME2001, ME2004, SC2003, with two passes of 11 or better, one of which must be in ME2001, ME2004 or SC2003; and at least 40 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 120 credits chosen from ME3012 - ME3450; AR3211, AR4223; SC3023 - SC3028; MO3012, MO3026.</p> <p>Level 4: 30 credits comprising HI4999; 60 credits chosen from ME4707 - ME4905, SC4107, SC4110; and a further 30 credits chosen from ME3002 - ME3450; AR3211; MO3012, MO3026; SC3023 - SC3028.</p> <p>Other Information: The following additional constraints apply: (i) not more than 120 credits may be chosen from modules taught by any one member of staff; (ii) Subject to the approval of the Chairperson of the Degree Committee, 30 credits taken in another subject at Honours level may be substituted for one 30-credit module.</p>
<p>(M.A. Honours): Mediaeval History and Arabic, Art History, Classical Studies, Economics, English, French[^], Geography, German[^] International Relations[~], Italian[^], Latin, Mathematics, Middle East Studies, Philosophy, Psychology, Russian[^], Social Anthropology, Spanish[^], Theological Studies.</p> <p>[~]Timetable clash exists, combination subject to arrangement by both Departments.</p> <p>[^] also available as 'With Integrated Year Abroad Degree'</p> <p>(this programme applies to entrants before 2008-09)</p>	<p>Mediaeval History element of Joint Degrees (M.A. Honours):</p> <p>Level 1: See Level 2.</p> <p>Level 2: 60 credits comprising passes in any 3 of ME1001, (ME1002 or ME1004), ME2001, ME2004, with two passes of 11 or better, one of which must be in ME2001 or ME2004; and at least 60 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 60 credits from ME3012 – ME3450; AR3211, AR4223; SC3021 - SC3027; MO3012, MO3018.</p> <p>Level 4: Either (a) 60 credits chosen from ME4707 - ME4905, SC4107, SC4108, SC4110, SC4113; or (b) 30 credits from HI4999; and a further 30 credits chosen from ME3012 - ME3450; AR3211, AR4223; SC3023 - SC3028.</p> <p>Other Information: The following additional constraints apply: (i) not more than 90 credits may be chosen from modules taught by any one member of staff; (ii) HI4999 can only be taken with the consent of the Chairperson of the Degree Committee.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Mediaeval History and Arabic, Art History, Classical Studies, Economics, English, French[^], Geography, German[^] International Relations[~], Italian[^], Latin, Mathematics, Middle East Studies, Philosophy, Psychology, Russian[^], Social Anthropology, Spanish[^], Theological Studies.</p> <p>~Timetable clash exists, combination subject to arrangement by both Departments.</p> <p>[^] also available as 'With Integrated Year Abroad Degree'</p> <p>(this programme applies to entrants after 2009-10)</p>	<p>Mediaeval History element of Joint Degrees (M.A. Honours):</p> <p>Level 1: See Level 2.</p> <p>Level 2: 80 credits comprising passes in any 4 of ME1001, ME1004, ME2001, ME2004, SC2003, with two passes of 11 or better, one of which must be in ME2001, ME2004 or SC2003; and at least 40 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 60 credits from ME3012 – ME3450; AR3211, AR4223; SC3021 - SC3027; MO3012, MO3018.</p> <p>Level 4: Either (a) 60 credits chosen from ME4707 - ME4905, SC4107, SC4108, SC4110, SC4113; or (b) 30 credits from HI4999; and a further 30 credits chosen from ME3012 - ME3450; AR3211, AR4223; SC3023 - SC3028.</p> <p>Other Information:</p> <p>The following additional constraints apply: (i) not more than 90 credits may be chosen from modules taught by any one member of staff; (ii) HI4999 can only be taken with the consent of the Chairperson of the Degree Committee.</p>
<p>(M.A. Honours): Mediaeval Studies</p>	<p>Single Honours Mediaeval Studies Degree:</p> <p>Level 2: Passes at 11 or better in at least two 2000-level modules totalling at least 40 credits; specific sub-honours modules are required for specific honours modules, as follows: (i) For all AH modules: passes in one of AH1001 or AH1002; (ii) For all AN, ME, MO and SC modules: 11 or better in at least two of ME1001, (ME1002 or ME1004), ME2001, ME2004; (iii) For all EN modules: 11 or better in EN2003. (iv) For all FR modules: FR2031 and a pass at 11 or better in FR2022. Students must achieve a pass in the language element of the examination. (v) For all GM modules: 40 credits in 2000-level modules, passing at 11 or better in either one of GM2001 or GM2002 and in one of GM2003 or GM2004, or in one of GM2009 or GM2010 and in one of GM2007 or GM2008. (vi) For all IT modules: IT2001 and a pass at 11 or better in IT2002. (vii) For all ML modules: entry into Honours in at least one of the languages specified in the module concerned. (viii) For PY4819, PY4802 and CL4410: At least 40 credits at 11 or better from PY2001 - PY2103.</p> <p>Levels 3 & 4: At least 210 credits chosen from the following, with at least 30 and no more than 120 credits from each of at least 3 of the following 4 groups of modules. (i) History modules: AN4107 – AN4108; ME3012 - HI4999; SC3021, SC3024, SC3025, SC3028, SC4099, SC4107, SC4108, SC4110; (ii) Language and Literature modules: EN4201, EN3010, EN4212, EN4214, EN4216, EN4217, EN3060; FR3013, FR3053, FR4114, FR4198-FR4199; GM3033, GM4076, GM4098, GM4099; IT3009, IT3012, IT4098, IT4099, IT4012; ML3004, ML3009; RU3015, RU3107, RU3031, RU3032, RU4108, RU4198, RU4199; SP3011, SP4098, SP4099 (iii) Art History modules: AH3102, AH3105, AH3113, AH4098, AH4101, AH4123, AH4134. (iv) Philosophy modules: CL4410, PY4819, PY4802.</p> <p>N. B. Only one of the following (dissertation modules) may be taken: AH4098, EN4201, FR4198, FR4199, GM4098, GM4099, IT3098, IT3099, HI4999, PY4802,</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Middle East Studies and Art History (European & North American Art), Classical Studies, Economics, English, Geography, German[^], Hebrew, International Relations, Italian[^], Latin, Management, Mediaeval History, Modern History, Russian[^], Social Anthropology, Spanish[^].</p> <p>(this programme applies to entrants before 2007-08)</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p>	<p>Middle East Studies element of Joint Degrees (M.A. Honours):</p> <p>Level 1: 40 credits comprising either IR1005 and IR1006 or ME1001 and (ME1002 or ME1004) or MO1005 and MO1006.</p> <p>Level 2: 40 credits comprising passes at 11 or better in AR2003 and any one of IR2004, ME2001, ME2004, and MO2006.</p> <p>Level 3: At least 30 credits from IR3109, ME3203, ME3228, ME3229, ME3230, MO3215, MO3322, and MO3327.</p> <p>Level 4: At least 30 credits from AR4999, IR4506, IR4507, IR4510, IR4520, IR4999, ME4803, ME4812, HI4999, MO4957 but not including more than one of AR4999, IR4099, HI4999.</p>
<p>(M.A. Honours): Middle East Studies and Art History (European & North American Art), Classical Studies, Economics, English, Geography, German[^], Hebrew, International Relations, Italian[^], Latin, Management, Mediaeval History, Modern History, Russian[^], Social Anthropology, Spanish[^].</p> <p>(this programme applies to entrants after 2007-08)</p> <p>[^] available also as ‘With Integrated Year Abroad Degrees’</p>	<p>Middle East Studies element of Joint Degrees (M.A. Honours):</p> <p>Level 1: 40 credits comprising ME1004 and any one of IR1005, IR1006, ME1001, MO1005 and MO1006</p> <p>Level 2: 40 credits comprising MO2007 and any one of IR2004, ME2001, ME2004 and MO2006.</p> <p>Entry to Level 3 of the programme requires passes at 11 or better in three of the above modules, two of which must be at 2000 level, including MO2007.</p> <p>Level 3: At least 30 credits from IR3109, ME3203, ME3228, ME3229, ME3230, MO3215, MO3322, and MO3327</p> <p>Level 4: At least 30 credits from AR4999, IR4506, IR4507, IR4510, IR4520, IR4999 ME4803, ME4812, HI4999, MO4957 but not including more than one of AR4999, IR4099, HI4999.</p>
<p>(M.A. Honours): Middle East Studies with Arabic</p> <p>(not available to entrants after 2007-08)</p>	<p>Middle East Studies with Arabic Degree:</p> <p>Level 1: 80 credits comprising AR1001, AR1002 and either IR1005 and IR1006 or ME1001 and (ME1002 or ME1004) or MO1005 and MO1006.</p> <p>Level 2: 80 credits comprising passes at 11 or better in AR2001, AR2002, AR2003 and any one of IR2004, ME2001, ME2004, and MO2006.</p> <p>Level 3: At least 90 credits from AR3201 - AR3999, IR3109, ME3203, ME3228, ME3229, ME3230, MO3215, MO3322, and MO3327.</p> <p>Level 4: At least 90 credits from AR4205, AR4232, AR4235, AR4999, IR4506, IR4507, IR4510, IR4520, IR4099, ME4803, ME4812, HI4999, MO4945, MO4957 but not including more than one of AR4999, IR4099, HI4999.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Modern History</p>	<p>Single Honours Modern History Degree: Level 1: 20 credits from MO1005</p> <p>Level 2: 20 credits from MO2006, 20 credits from EITHER MO2007 OR SC2004. In addition, passes of 11 or better must be gained at the first round of assessment for MO2006 and for EITHER SC2004 OR MO2007.</p> <p>In order to gain admittance to Honours programmes in Modern History 20 further credits must be gained from EITHER MO1006 OR SC2004, in addition students must have gained a minimum of 40 credits in subjects other than Ancient, Mediaeval, Modern, Scottish or Church History.</p> <p>Level 3: 120 credits chosen from MO3001 - MO3711, SC3022, SC3033 - SC3045.</p> <p>Level 4: 60 credits chosen from MO4902 - MO4962, SC4108, SC4109 and SC4111; 30 credits from HI4998 or, with the consent of the Chair of the Degree Committee, HI4999; and a further 30 credits chosen from MO3001 - MO3515, SC3022, SC3033 - SC3043.</p> <p>Other Information: The following additional constraints apply: (i) not more than one module may be chosen from outwith Modern History; (ii) not more than 120 credits may be chosen from modules taught by any one member of staff; (iii) not more than 180 credits may be chosen from modules in British History, (iv) students must take at least one module dealing with the period before 1815, and one module dealing with the period since 1815. Subject to the approval of the Chairperson of the Degree Committee, 30 credits taken in another subject at Honours level may be substituted for one module, except for HI4998 or HI4999; may be substituted for one 30-credit module.</p>
<p>(M.A. Honours): Modern History and Arabic, Art History, Classical Studies, Economics, English, Film Studies, French[^], Geography, German[^], International Relations, Italian[^], Management, Mathematics, Middle East Studies, New Testament, Philosophy, Psychology, Russian[^], Social Anthropology[~], Spanish^{^~}, Theological Studies. [^] available also as 'With Integrated Year Abroad Degrees' [~]Timetable clash exists, combination subject to arrangement by both Departments.</p>	<p>Modern History element of Joint Degrees (M.A. Honours): Level 1: 20 credits from MO1005.</p> <p>Level 2: 20 credits from MO2006, 20 credits from EITHER MO2007 OR SC2004. In addition, passes of 11 or better must be gained at the first round of assessment for MO2006 and for EITHER SC2004 OR MO2007.</p> <p>In order to gain admittance to Honours programmes in Modern History 20 further credits must be gained from EITHER MO1006 OR SC2004, in addition students must have gained a minimum of 40 credits in subjects other than Ancient, Mediaeval, Modern, Scottish or Church History.</p> <p>Level 3: 60 credits from MO3001 - MO3515, SC3022, SC3023 - SC3043.</p> <p>Level 4: Either (a) 60 credits from MO4902 - MO4954, SC4108, SC4109, and SC4111; or (b) 30 credits from HI4998 or, with the consent of the Chairperson of the Degree Committee, HI4999; and a further 30 credits chosen from MO3001 - MO3515, SC3022, SC3023 - SC3043.</p> <p>Other Information: not more than 90 credits may be chosen from modules taught by any one member of staff.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Scottish History</p> <p>(this programme applies to entrants before 2007-08)</p>	<p>Single Honours Scottish History Degree:</p> <p>Level 1: SC1001, SC1002.</p> <p>Level 2: SC2001, SC2002. 60 credits comprising passes in three of the above level 1 and level 2 modules with two passes being at 11 or better of which one must be in a Second Level module and at least 60 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 120 credits chosen from SC3003 - SC3045, ME3013, ME3224, save that, with the permission of the Chairperson of the Degree Committee, up to 60 of these credits may be from AN4103 - AN4133, ME3006 - ME3418 and MO3003 - MO3514.</p> <p>Level 4: 30 credits from HI4999; 60 credits chosen from SC4107 - SC4113; and a further 30 credits chosen from SC3003 - SC3045, ME3224, save that, with the permission of the Chairperson of the Department, up to 60 credits at 3000 level overall may be from AN4103 - AN4133, ME3006 - ME3418 and MO3001 - MO3514.</p> <p>Other Information: The following additional constraint applies: not more than 120 credits may be chosen from modules taught by any one member of staff. Subject to the approval of the Chairperson of Department, 30 credits taken in another subject may be substituted for one module.</p>
<p>(M.A. Honours): Scottish History</p> <p>(this programme applies to entrants after 2007-08)</p>	<p>Single Honours Scottish History Degree:</p> <p>Level 1: A minimum of 40 credits comprising at least two of MO1005, MO1006, ME1001 and ME1004</p> <p>Level 2: 40 credits comprising passes at 11 or better in both SC2003 and SC2004, in addition students must have gained a minimum of 40 credits in subjects other than Ancient, Mediaeval, Modern, Scottish or Church History.</p> <p>Level 3: 120 credits chosen from SC3003 - SC3045, ME3013, ME3224, save that, with the permission of the Chairperson of the Degree Committee, up to 60 of these credits may be from AN4103 - AN4133, ME3006 - ME3418 and MO3003 - MO3514.</p> <p>Level 4: 30 credits from HI4999; 60 credits chosen from SC4107 - SC4113; and a further 30 credits chosen from SC3003 - SC3045, ME3224, save that, with the permission of the Chairperson of the Degree Committee, up to 60 credits at 3000 level overall may be from AN4103 - AN4133, ME3006 - ME3418 and MO3001 - MO3514.</p> <p>Other Information: The following additional constraint applies: not more than 120 credits may be chosen from modules taught by any one member of staff. Subject to the approval of the Chairperson of Degree Committee, 30 credits taken in another subject may be substituted for one module.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours):</p> <p>Scottish History and Classical Studies, English, Film Studies, Geography, International Relations, Italian[^], Mathematics, Philosophy, Russian[^], Social Anthropology, Spanish[^].</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>(this programme applies to entrants before 2008-09)</p>	<p>Scottish History element of Joint Degrees (M.A. Honours):</p> <p>Level 1: 40 credits comprising either ME1001 or MO1005, and SC1004.</p> <p>Level 2: 40 credits comprising ME2001 and SC2004.</p> <p>Two passes from the above modules being at 11 or better, one at 2000 level and one an SC module, and at least 80 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 60 credits from SC3003 - SC3045, ME3013, ME3224.</p> <p>Level 4: Either (a) 60 credits chosen from SC4107 - SC4113; or (b) 30 credits from HI4999, and a further 30 credits chosen from SC3003 - SC3045, ME3224.</p> <p>Other Information: not more than 90 credits may be chosen from modules taught by any one member of staff.</p>
<p>(M.A. Honours):</p> <p>Scottish History and Classical Studies, English, Film Studies, Geography, International Relations, Italian[^], Mathematics, Philosophy, Russian[^], Social Anthropology, Spanish[^].</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>(this programme applies to entrants from 2008-09)</p>	<p>Scottish History element of Joint Degrees (M.A. Honours):</p> <p>Level 1: A minimum of 40 credits comprising at least two of MO1005, MO1006, ME1001 and ME1004</p> <p>Level 2: 40 credits comprising passes at 11 or better in both SC2003 and SC2004</p> <p>Two passes from the above modules being at 11 or better, one at 2000 level and one an SC module, and at least 60 credits gained in subjects other than Ancient, Mediaeval, Modern, Church and Scottish History.</p> <p>Level 3: 60 credits from SC3003 - SC3045, ME3013, ME3224.</p> <p>Level 4: Either (a) 60 credits chosen from SC4107 - SC4113; or (b) 30 credits from HI4999, and a further 30 credits chosen from SC3003 - SC3045, ME3224.</p> <p>Other Information: not more than 90 credits may be chosen from modules taught by any one member of staff.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

History – Honours 2009/10 – September 2009

Arabic (AR) Modules

AR3201 Media Arabic

Credits: 30 Semester: 1

Prerequisite: AR2002

Description: The module introduces the language of the Arabic press and broadcasting through texts and radio files. As a language course of clearly-defined scope, giving equal emphasis to comprehension, composition and translation, and to oral and written work, it has two objectives: vocational training and the development of an analytical approach to language acquisition.

Class Hour: To be arranged.

Teaching: Two 1-hour classes and one oral tutorial.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 40%, Oral Examination = 20%

AR3206 Literary Arabic

Credits: 30 Semester: 2

Prerequisite: AR3201

Description: This module will study linguistic, literary and cultural aspects of Arabic literary writing with readings from modern Arabic texts. The module is designed to improve and broaden students' knowledge of Arabic while also including a more analytical and cultural component. Students will be required to translate passages of text and comment on difficulties of translation, and to translate into and compose in modern standard Arabic on related subject matter.

Class Hour: 11.00 am - 1.00 pm Wednesday, 11.00 am Thursday.

Teaching: Three hours

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

AR3236 The Postcolonial Arabic Novel in Translation

Credits: 30 Semester: 1

Availability: Not available 2009-10

Prerequisite: Open to any student in the third or subsequent year of study, subject to the permission of the Head of School.

Description: This module will start with an overview of the historical background and a brief survey of the development of postcolonial Arabic fiction. For the rest of the module students will follow a programme of supervised reading in English of important examples of modern Arabic fiction such as novels by Naguib Mahfouz, Elias Khoury and Hanan al-Shaykh.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

AR3250 Key Texts in Islamic Religion and Culture 1

Credits: 30 Semester: 2

Prerequisites: AR3201

Description: This module will introduce students to the texts that have played a key role in the evolution of Islam as a religion and as a civilization. One hour will be spent reading and commenting upon the Arabic texts themselves, and a second devoted to discussion of the religious and cultural significance of these texts. The one-hour practical class will address wider linguistic issues raised. The texts will treat the following subjects: Qur'an, Qur'an commentary, biography of Muhammad, law and ritual, theology/philosophy, Islamic mysticism, Muslim politics both mediaeval and modern.

Class Hour: To be arranged

Teaching: Two hour seminar and practical

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

AR3301 Study Abroad Project in Arabic

Credits: 30 Semester: 1

Description: This module is open only to students attending the Arabic Language Centre at the University of Damascus in the first semester of their Junior Honours year, and will be compulsory for those students. Students will produce assignments while in Damascus and on their return on topics agreed with the module co-ordinator in St Andrews. These will be on matters relating to the Arabic news media, and to politics, current affairs or culture of the Arabic-speaking world. This work will be discussed in an oral examination to be held in the January diet.

Class Hour: To be arranged

Teaching: Arabic Language Centre in Damascus.

Assessment: Continuous Assessment = 60%, 20-30 Minute Oral Examination = 40%

AR4205 Advanced Arabic

Credits: 30 Semester: 1

Prerequisites: 60 credits from AR 3000-level modules which must include AR3201

Description: This module will build upon the skills gained in 3000-level modules. More emphasis will be placed on free composition in Arabic and translation into and out of Arabic. Students will also give oral presentations in Arabic, and a variety of materials representing different facets of Arab culture will be used to broaden students' knowledge of the language.

Class Hour: To be arranged.

Teaching: Three hours

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

AR4232 Modern Arabic Literature: Exile and Identity

Credits: 30 Semester: 2

Availability: 2009-10

Prerequisites: AR4205

Description: This module will study linguistic, literary and cultural aspects of recent Arabic fiction, with readings from short stories written mainly in the 1980s and 1990s by men and women writers from new areas of interest in Arabic literature, e.g. the Gulf and arabophone North Africa. Students will be required to translate passages of text and comment on difficulties in literary translation, to discuss literary and cultural dimensions of the texts and to give short presentations in simple modern standard Arabic on the literature they have read or related topics.

Class Hour: 4.00 pm, Monday, Tuesday and Thursday

Teaching: Three hours

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

AR4235 Modern Arabic Literature: Novellas

Credits: 30 Semester: 2

Availability: Not available 2009-10

Prerequisites: AR4205

Description: This module will study linguistic, literary and cultural aspects of recent Arabic fiction, with readings in Arabic from two novellas written in the late 1950s and late 1960s by an Egyptian and a Palestinian writer respectively, and readings in English from novellas and short stories by the same two authors. Students will be required to translate passages of text and comment on difficulties in literary translation, to discuss literary and cultural dimensions of the texts and to give short presentations in simple modern standard Arabic on the literature they have read or related topics.

Class Hour: 4.00 pm, Monday, Tuesday and Thursday

Teaching: Three hours.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

AR4251 Key Texts in Islamic Religion and Culture 2

Credits: 30 Semester: 2
Availability: 2009-10
Prerequisites: AR4205

Description: This module will build on AR3250 (Key Texts in Islamic Religion and Culture 1) in looking at further and more advanced texts that have played a key role in the evolution of Islam as a religion and as a civilization. One hour will be spent reading and commenting upon the Arabic texts themselves, and one hour will be devoted to discussion of the religious and cultural significance of these texts. The texts will treat the following subjects: Qur'an, Qur'an commentary, biography of Muhammad, law and ritual, theology/philosophy, Islamic mysticism, Muslim politics both mediaeval and modern.

Class Hour: To be arranged.

Teaching: Three hours.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

AR4999 Dissertation in Arabic and Middle East Studies

Credits: 30 Semester: 1

Availability: Available only to students in the Final year of the Honours Programme.

Description: A dissertation of about 10,000 words on an approved topic in Arabic and Middle East Studies, supervised by an appropriate member of staff.

Teaching: Tutorials by arrangement with supervisor

Assessment: Dissertation = 100%

History (HI) Modules

HI4998 Honours Project in History

Credits: 30 Semester: Either

Prerequisites: Available only to students in the Second year of the Honours Programme.

Description: This module involves oral presentation as well as written submission. It is designed to encourage the development of skills of historical analysis through the concentrated study of a chosen topic. It generally takes the form of an extended essay (maximum 8,000 words) on a narrowly defined topic, but may also involve new developments in learning and information dissemination, such as the production of a website, film or video, etc. Group projects are also welcome, their length being dependent on the numbers involved. The project outcome is assessed on the quality of the library research and analysis shown in the written submission (75%) and on the oral presentation of the findings to other students and two tutors (25%). The project may build on work you have done in another module, but it must break new ground and use substantially new research. It must not have been submitted in whole or part for any other module.

Class Hour: To be arranged.

Teaching: Fortnightly tutorials.

Assessment: Continuous Assessment = 100%

HI4999 Honours Dissertation in History

Credits: 30 Semester: Whole Year

Description: The dissertation must consist of between 10,000 and 12,000 words of English prose on a topic agreed between the student and an appropriate member of staff (who acts as supervisor). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the candidate if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisor in order to determine that the student has access to sources as well as a clear plan of preparation.

Teaching: Tutorials as required.

Assessment: Dissertation = 100%

Mediaeval History (ME) Modules

ME3012 Heroic History: The Age of Beowulf

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module uses the epic poem Beowulf to explore early Anglo-Saxon society. Major themes include: the poem's date and context; kings and queens; weapons and warfare; family and feuding; heroic masculinity; history, poetry and memory; the impact of Christianity; Morality and literacy. The module will make extensive use of modern translations of Old English poetry, Latin histories and other early mediaeval epics. It will rely heavily on the wide range of electronic resources in this field to study both the text of the poem itself and the material culture of early Anglo-Saxon England.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3014 The End of the Middle Ages? Scotland and England in the Fifteenth Century

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: The neighbouring kingdoms of Scotland and England are excellent case studies through which to examine the impact of the changes affecting Europe at the close of the Middle Ages. Both faced internal conflicts, war, weak kingship, periods of political instability, and economic difficulties. Yet they also enjoyed periods of relative peace, cultural exchange and advancement, and embraced developments emerging on the Continent. Their relationships with Europe, as well as with one another, provide an insight into the pressures of rapidly changing societies, as Renaissance ideals began to impact upon a fragmenting mediaeval world. This module will assess and compare political, social, cultural, religious and economic aspects of the kingdoms of Scotland and England during the fifteenth century.

.Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3015 Heralds, Heraldry and History: Late Mediaeval Heraldic Studies

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: During the fourteenth and fifteenth centuries the number of heraldic officers throughout Europe increased. Heralds of both the royal court and private households had a range of important roles: in domestic and international diplomacy; tax collection; important ceremonial functions; and they were the technical experts in the laws of arms and chivalric culture. Likewise, the 'international language' of heraldry had a significance to mediaeval elites which is often unrecognised and misunderstood today. This module explores the range and significance of the office of the herald, the application and powerful symbolism of the laws and arts of heraldry, and asks what this can reveal to us about elite culture in the late Middle Ages. The module focuses mainly on Britain, but discusses a wide range of European connections and source materials.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

ME3016 Ireland in the Later Middle Ages: Nations and Conflicts

Credits: 30 Semester: 1

Availability: 2009-10

Description: Later Mediaeval Ireland was a land of contrasts and conflicts. Nominally a lordship of the English crown, it was divided between English settlers and Gaelic Irish who existed in a state of mutual distrust and conflict. Wide variations in government, culture and social organization differentiated the two peoples, encouraging the expression of clear views on racial identities and the existence of numerous militarized borderlands. This module examines Ireland from the thirteenth century to the 1540s, looking at the two communities and their points of contact. Ireland is examined as a dominion of English kings involved in a wider network of events and processes, and as a decentralized land with an absentee ruler which experienced incessant warfare. The module also involves comparisons with other late Mediaeval realms and looks at the place of the later middle ages in the, often fiery, debates about Irish history.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3101 Britons and Saxons, c. 570 - 822

Credits: 30 Semester: 1

Availability: 2010-11

Description: This module will examine the relationship between English and British communities in the period from the late-sixth to the early-ninth century focusing on conflict and interaction. This period is characterised by both the emergence of kingdoms amongst the English and by the conquest by these kingdoms of most of the territories occupied by the Britons at the beginning of the period. Social and economic aspects of this competition for resources will be examined as will warfare and ecclesiastical structures. The module will rely upon both textual and archaeological materials.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3102 Gildas and the Ruin of Britain, c. 467-570

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will investigate the transformation of Britain and Ireland in the two hundred years following the so-called 'Barbarian Conspiracy' of 367. The core text will be the *De Excidio Britanniae* written by Gildas, our sole surviving authority from sixth-century Britain. Themes covered will include the ending of Roman rule, the Anglo-Saxon invasions, the emergence of post-Roman British kingdoms as well as the conversion of Ireland to Christianity and the origins of Insular monasticism. A combination of textual and archaeological materials will be examined.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3201 Christians, Muslims and Jews in Mediaeval Spain

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module examines the history of multicultural Spain from the 8th to the 15th centuries. The module will take as its main focus changes in the interactions of Muslim, Christian and Jewish communities in order to understand the causes of the transition in Iberia from tolerance in the early centuries to segregation and expulsion in the Late Middle Ages.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3202 Byzantium and the West 800-1118

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module surveys the main points of contact, conflict, difference and similarity between Eastern and Western Christendom in the period from Charlemagne to the First Crusade. In addition to looking at the main political events and points of cultural exchange, the module will compare equivalent institutions and developments in East and West (e.g. kingship, lordship, monastic revival, church government and reform).

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3203 The Crusades

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module will examine the creation and development of the crusading movement from the Council of Clermont in 1095 through to the collapse of the Crusader States in 1291 and their aftermath. The crusading movement in its widest sense will be considered, in theatres from the Baltic to the Mediterranean, from Portugal to Palestine; against Muslim, Pagan and Christian (heretical or political) enemies. The response of those societies threatened by crusading will also be considered. The module will explore the development of an ideology, the apparatus and institutions of crusading, and will seek to reach conclusions about how crusading can be explained and defined. There will be some emphasis on reading original sources in translation.

Class Hour: To be arranged.

Teaching: Two 1 hour seminars.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3204 The Princess Historian: Anna Comnena

Credits: 30 Semester: 1

Availability; Not available 2009-10

Description: This module is based on the *Alexiad*, the biography of the Emperor Alexius I Comnenus (1081 - 1118) by his daughter Anna. The text will be studied both as a source for the career of the ruler who revived the Byzantine Empire and invited the First Crusade, and as a product of the Greek Twelfth-Century Renaissance-. There will be scope for comparison with a variety of contemporary texts in translation and with other mediaeval women writers.

Class Hour: 2.00 - 4.00 pm Thursday.

Teaching: Two 1 hour seminars.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3206 Heretics and Social Outcasts in Western Europe

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This option examines the rise and spread of heresy in the West. It explores in particular the reasons why heresy produced such strong reactions and compares and contrasts the treatment of heretics with that given to other social marginals.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

ME3214 Italian City States: from Communes to Signorie c. 1000 - c. 1350

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module explores the history of the cities of Tuscany and Northern Italy from their unprecedented expansion in the eleventh century to their peak in the age of Dante and Boccaccio in the fourteenth. Themes covered include the nature of the communes, their relations with the Empire of Frederick I and II, the changing character of social life in the urban context, vendetta and violence, the rise of the 'despots' and the development of the *vita civile* in art, poetry and religion. As well as documentary sources in translation, selected writings by Salimbene, Dante and Boccaccio will be used to explore these issues.

Class Hour: To be arranged.

Teaching: Two 1 hour meetings.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3216 Mediaeval Rome c. 590 - c. 1300

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module surveys the history of a city which encapsulates many issues central to the history of the Latin West from the time of Pope Gregory I (590-614) to the Jubilee of 1300 and the departure of the popes for Avignon. Topics covered will include topography, city government, ritual and public space, insiders and outsiders, conflict and defence, relations with the surrounding territory and the 'papal states', the 'marvels of Rome' and the imperial heritage. The teaching will use both written sources in translation and archaeological and art historical evidence.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3218 Imperial and Christian Constantinople

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This option studies the transformation from the ancient world to the Middle Ages as it affected the Eastern capital of the Roman Empire. The first six sessions trace the initial growth of Constantinople as a great political and religious centre (fourth to sixth centuries), the crisis of the seventh and eighth centuries, and the subsequent period of revival. The second half of the module looks at various functions of the city in relation to both historical time and urban space: the Palace, the great churches, civic ritual and entertainment, economic and social services, the provision of welfare and defence, the role of urban monasteries

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3221 Culture and Society in the Icelandic Commonwealth ca 870 - 1262

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module looks at how the Icelandic Commonwealth operated and the culture it produced. The main sources for the Commonwealth are literary works composed in the 12th and the 13th centuries. This includes Icelandic sagas, contemporary saga and Eddaic poetry, all of which is available in translation. Selected texts will be read in detail to assess how sources of this kind can help us understand social structures, mental attitudes and religious beliefs.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3222 Inca Civilisation and its Destruction

Credits: 30 Semester: 2

Availability: 2009-10

Description: The Inca Empire (Tahuantinsuyu) dominated the Andean region for about a century before the Spanish Conquest. Its creation and consolidation were the achievement of three great rulers (Incas) who held sway in the Andes from the 1430s to the 1520s: Pachacutec, Topa, and Huayna Capac. The aim of this module is to study the society, religion, art, and political and military organisation of this empire, partly through the post-Conquest written sources, and partly through the architecture and artefacts left by the conquered indigenous population. It also asks how Pizarro, with less than 200 conquistadors, succeeded in 1532 in conquering an empire of some eight million people, and what happened to the native population in the aftermath of conquest.

Class Hour: To be arranged.

Teaching: Two 1 hour seminars.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3223 Politics and Power in Carolingian and Ottonian Europe, c. 800-1000

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module deals with the political history of Europe under the hegemony of the Carolingian and Ottonian dynasties. Beginning with the emperor Charlemagne, the module traces the subsequent disintegration of the pan-European Carolingian empire under his successors, and the emergence of the Ottonian successor kingdom of the tenth century. Central themes will be the changing nature of early mediaeval politics; the construction and maintenance of royal power through ritual, history-writing and iconography; the ethos of the aristocracy; warfare and the impact of the Viking and Magyar raids; the development of the office of queenship; relations with Byzantium; and the importance of the period for the emergence of Europe.

Class Hour: to be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3224 Legend and History in Sub-Roman Britain

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module investigates the archaeological and literary sources relating to the final phase of British History when Welsh, English, Gaelic and Pictish identities were beginning to emerge. Particular attention will be paid to the way in which a relatively meagre database was rapidly swallowed up in the mythmaking process that was early medieval historiography. Students will gain an understanding of the ending of Roman Britain as it was and as it was perceived. The majority of classes will be based around a single episode or character, examining the way in which legend gathered around a historical core as the centuries proceeded. The module will attempt to draw the strands together and evaluate what we really know about the ending of Roman Britain together with a detailed examination of *Historia Brittonum*, the first full-length attempt to produce a synthesised narrative of the period.

Class Hour: 10.00 am Tuesday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

ME3228 The Near East in the Age of Justinian and Muhammad, c.527-700

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module traces the political, ideological and cultural transformation of the Near East in the early mediaeval period, a time when the traditional superpowers of Rome and Persia were superseded by a new dynamic Islamic polity. The module will examine the social and cultural history of the Near East in the sixth century before studying the emergence of Muhammad, the Arab conquests, the consolidation of Islamic rule and the Byzantine response. A selection of translated extracts from sources originally in Greek, Syriac, Arabic, Armenian and Coptic will be studied and their merits and challenges assessed. Some material, numismatic and papyrological evidence will be introduced.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3229 Eastern Approaches: Early Mediaeval Armenia c. 500 - 750

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module explores Armenian political, social and cultural history in the early mediaeval period. It examines Armenian engagement with the great powers of the day, Rome and Persia as well as Armenian responses to the dramatic reconfiguring of the Near East in the seventh century, when the old order was swept away and replaced by a dynamic Islamic polity. Issues of identity, orthodoxy and heroic history will be studied through a selection of translated extracts from sources originally in Armenian, Greek and Arabic. These sources will be assessed critically and in conjunction with numismatic and epigraphic evidence. This module offers an opportunity to study an early mediaeval Christian society on the eastern fringe of the Roman world and invites comparison with the post-Roman West.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3230 The Mongols and the West

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will examine the history of the Mongols, the conquerors of much of Eurasia in the thirteenth century. It will focus on the Mongol activities in the 'West': Europe and the 'Near East'. It will look at the reception of the Mongols, and perceptions of them, in the Muslim and Christian worlds. The Mongols will be put in the historical context of Central Asia and China, and their society and culture. The module will not only look at the Mongol conquests, but also at the consequences of these conquests, at the 'Mongol World Empire' and at the Mongol successor states.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3231 Mediaeval Apocalyptic Traditions 400 - 1200

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module explores the influence of apocalyptic thought on European history in the Middle Ages. It focuses on the different groups who proclaimed or denied the imminence of the end of time, examining their importance for political, social and cultural changes across the period. Apocalyptic thought will also be studied as a response to crisis, particularly in times of invasion or political fragmentation. The module will draw on a range of primary literary and artistic sources to help evaluate modern debates on the significance of apocalypticism in the Middle Ages.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3232 Queens and Queenship in Early Mediaeval Europe

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module explores the political role played by queens in the early middle ages. Studying the constantly shifting representation of female authority (often depicted as unnatural and dangerous) allows us to examine various key moments in early mediaeval political history and helps illuminate contemporary power structures. This enterprise also demands that we confront broader cultural phenomena - for example changing attitudes to marriage, sex and masculinity - and that we engage with modern historiographical debates about gender and history. The module is structured around a series of texts written about and for queens, each of which is selected to illuminate broader issues as well as for intrinsic interest.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3233 The Gothic and Frankish Kingdoms 400 - 700

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module surveys the formation of the key 'barbarian kingdoms' which emerged in the post-Roman West. It is a period once characterized as a 'Dark Age' in which civility and learning gave way to violence and superstition. We will challenge such assumptions as we explore the rich political and cultural worlds of the Gothic and Frankish 'successor states'. In the first half of the module, the focus is on the creation of power in Italy, Spain and Frankia. The second half compares the customs and beliefs of the kingdoms, as well as investigating the ways in which different political and social groups interacted.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3407 Courtroom Dramas: Literature, Law and Lordship

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module examines the artistic, socio-political and legal culture of the secular aristocracy in England and Northern France during the twelfth century, with particular concentration upon the vernacular literature of the period. It considers honour and shame; the sources and uses of seignorial power; kinship and family; gender; love, and other emotions; counsel; violence and peacemaking; courtroom skills and procedures.

Class Hour: To be arranged.

Teaching: Two 1 hour seminars.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3408 The Black Death and the Peasants' Revolt in England

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: The Black Death was the greatest natural disaster in recorded history, killing at least one third of the population of England (and Europe) between 1347 and 1350. This module will examine the social, economic and political consequences of the plague in England during the second half of the fourteenth century, with particular emphasis on the part it played in stimulating violent social unrest such as the great rising of 1381. Original sources in translation will be used extensively.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

ME3411 The Mediaeval Castle

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module surveys the architectural development of mediaeval castles in Western Europe and the Near East from the eleventh to the fifteenth centuries. About half the time is devoted to castles in the British Isles and the other to selected areas elsewhere, notably France, Spain, the Baltic lands and the Crusader Levant. The emphasis will be on archaeological and architectural history and the role of the castle in war and peace.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3414 Ideas on Nature and Animals in the Middle Ages

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: What was the origin of the world? Should human beings modify the creation of God? Do animals, plants and planets have power over people? Why were there famines and floods? This module explores medieval European ideas and images of nature and animals with particular attention to the centres that produced them: monasteries, towns, universities, royal courts, noble households. The option is an introduction to the strand of environmental history concerned with cultural and historical representations of their environment by past societies. It uses a wide range of sources: the Bible, bestiaries, saints' lives, chronicles, literature and iconography.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3417 The Middle Ages and the Movies

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module examines the ways mediaeval themes have been presented in the cinema over the last century, by taking exemplary films from different countries and epochs. The purpose is to explore each on three levels: the mediaeval reality, the subsequent legendary or literary elaboration, and the twentieth-century film rendition, regarding them equally as work of art, ideology and economic product. The selection of films studied may vary from year to year.

Class Hour: To be arranged.

Teaching: Two 1 hour seminars.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3418 The Vikings: Invasion, Settlement and Conversion, c. 750-1200

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module deals with the Viking expansion in Europe between the eighth and eleventh centuries. The module has a broad geographical and thematic scope, and will entail the study of a diverse range of sources, including archaeology, runic inscriptions, contemporary written texts and later sagas. Topics covered include: society in early mediaeval Scandinavia; causes of the Viking expansion; conflict, conquest and settlement in Anglo-Saxon England and on the continent; Scandinavians in the East and the origins of Russia; paganism and conversion; towns and trade; settlement and society in the Viking North Atlantic.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3423 Mediaeval Warfare: Theory, Practice and Politics in the Late Middle Ages

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: The late Middle Ages was a period of rapid change in the practice of warfare in Western Europe. Knights, the traditional backbone of the mediaeval army, were threatened with redundancy by the rise of infantry and the development of gunpowder artillery. Moreover, their central ethos, chivalry, which defined their place in war, was increasingly criticized and reformed. Other developments also endangered the customary place of the knight in battle and they were forced to adjust to siege warfare, battles at sea and a surge in the employment of mercenary soldiers. This module will explore these issues whilst investigating the theory, practice and politics of warfare in the late Middle Ages.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME3424 The Ottoman Empire from Mediaeval Anatolia to Süleyman the Magnificent

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module studies the rise of the Ottoman Empire in its historical context. Themes studied in the first half of the module include Ottoman expansion in the Balkans; Timur's defeat of the Ottomans at Ankara (1402) and their gradual recovery; the struggle for a centralized Ottoman empire that ended with the capture of Constantinople by Mehmed the Conqueror (1453); and expansion to the Arab world under Selim I and Süleyman the Magnificent. The second half of the module examines in detail the structure and functioning of Ottoman society and administration under Mehmed II and Süleyman the Magnificent.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

ME4701 Henry I: Perceptions and Practice of Kingship in Anglo-Norman England

Credits: 60 Semester: Whole Year

Availability: 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module will examine the images of kingship presented by Henry I and by those who recorded his acts. It will also analyse royal power not only in terms of administration but also the exercise of lordship. Themes to be considered will include the king's roles as warrior, patron, law-giver, maintainer of peace and justice, and protector of the church. Comparisons will be made both with other European rulers and with the great kings of literature of the time.

Class Hour: 9.30 am - 12.30 pm Wednesday.

Teaching: One 3 hour seminar

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4707 Law and Society in England c.870 - 1220

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module examines the development and functioning of law within mediaeval English society. Topics covered include the prevention and prosecution of crime, changes in land law, and the development of legal learning. The emphasis is upon the relationship between law and the political, social and intellectual life of the time. Close analysis of texts will encourage the development of original argument in a number of neglected fields.

Class Hour: To be arranged

Teaching: One 2 to 3 hour seminar

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

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ME4709 Past and Present in Mediaeval Wales

Credits:	60	Semester:	Whole Year
Availability:	Not available 2009-10 Available only to students in the Second Year of the Honours Programme.		
Description:	This module will be based around a close reading of texts produced in Wales during the long twelfth century. The set texts represent a range of genres from royal biography and ‘topography’ to prose narratives and hagiography. Both Latin and vernacular texts will be represented. The composite law code, <i>Cyfreith Hywel</i> , an inestimable source for the social history of medieval Britain as a whole, will also be worked through in the second part of each class. The production and preservation of these texts reflects the influence of the twelfth-century renaissance on Wales but the character of Welsh society at the time, politically fragmented and entirely rural, gives the texts a quality entirely of their own, reflecting as they do a world which had passed away from much of the rest of Europe. While some of the texts deal with contemporary matters, many are concerned with the distant pan-British past, whether this be the pagan era of the <i>Mabinogi</i> or the sixth-century Age of Saints.		
Class Hour:	9.30 am - 12.30 pm Wednesday		
Teaching:	1 three hour seminar		
Assessment:	Continuous Assessment = 40%, Two 3 Hour Examinations = 60%		

ME4801 Art and Orthodoxy in Byzantium

Credit:	60	Semester:	Whole Year
Availability:	Not available 2009-10 Available only to students in the second year of the Honours Programme		
Description:	This Special Subject examines the role of the visual arts in the formation of the Eastern Orthodox Christian tradition. The central theme is the place of sacred images in religious worship and the fierce debate aroused by the veneration of icons of Christ and the saints. The rise, crisis and ultimate vindication of the icon is studied in relation to church architecture, liturgy, imperial ideology, monastic spirituality and literary culture. While the focus will be on the period 500-900, consideration will be given both to the early Christian background and to the subsequent flowering of Byzantine art. Visual material will be studied in close relation to a variety of texts in translation. Teaching will be by seminar, with the occasional orientation lecture.		
Class Hour:	9.30 am - 12.30 pm Wednesday.		
Teaching:	One three hour seminar.		
Assessment:	Continuous Assessment = 40%, Two 3 Hour Examinations = 60%		

ME4803 The Fourth Crusade

Credits:	60	Semester:	Whole Year
Availability:	2009-10 Available only to students in the Second Year of the Honours Programme.		
Description:	This module will examine the context, events, aftermath and historiography of the Fourth Crusade, through a close analysis of the contemporary sources. This has often been seen as a controversial topic, one open to very different interpretations. The modern scholarship approaches the event from differing perspectives, that of historians of the Mediaeval West and of Byzantium. The sources available in translation also reflect a multiplicity of viewpoints; many of these translations are very recent. By close analysis of the sources, the student will be able to reconstruct the events, and arrive at interpretations of them, for themselves.		
Class Hour:	To be arranged		
Teaching:	Two one-and-a-half hour seminars.		
Assessment:	Continuous Assessment = 40%, Two 3 Hour Examinations = 60%		

ME4806 The Age of Charlemagne, c. 750-830

Credits: 60 Semester: Whole Year

Availability: 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: Charlemagne's reputation as the 'Father of Europe' has seen his memory claimed and reused by, among others, Napoleon, the Nazis, and the European Union. The study of his reign enables us to ask about the origins of Europe, and the transformation of the world of Late Antiquity into that of the Middle Ages. His reign was dominated by brutal but sophisticated military campaigning, which resulted in the rapid establishment of an empire of around 1 million square kilometres. At the same time, however, the emperor surrounded himself with the great scholars of the day, and embarked on an ambitious and serious mission to completely reform society according to Christian moral principles. Charlemagne is therefore a paradoxical and intriguing character. He is also the best documented early mediaeval ruler by some way, and we will use a variety of types of source (including annals, histories, biographies, visions, governmental records, architecture, art and poetry) to examine warfare, court politics, ritual, ideology, the cult of the saints, religious reform and culture in the late eighth and early ninth centuries. We will also study the various pagan, Christian, Islamic and Celtic societies which came under Frankish attack in the period, and consider how Charlemagne was remembered, including the rumours of scandal, incest and visions of the emperor in hell which circulated soon after his death.

Class Hour: To be arranged

Teaching: Two one-and-a-half hour seminars.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4807 The Early Mendicants: Francis, Clare and Dominic, c. 1180 - c. 1270

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module will use a rare combination of written and visual sources to examine and compare the personalities, careers and impact of Saints Francis, Clare and Dominic and the Orders they founded. Themes to be considered will include the influence of their immediate predecessors and contemporaries in the 'evangelical awakening', the problems posed by the sources for the lives of the saints themselves, poverty, mendicancy and itinerant preaching, the impact of their cults on art and architecture, institutional developments and relations with the papacy, the secular church, the inquisition and the universities.

Class Hour: 10.00 am - 1.00pm Wednesday.

Teaching: Two one-and-a-half hour seminars.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4812 From Leo VI to Basil II: Byzantium in the Tenth Century

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: The tenth century witnessed the political and cultural revival of Byzantium following two centuries of dour military struggle, impoverishment and introspection. Byzantium took advantage of a fragmented Muslim polity to push eastwards, seizing territory and attracting Armenian, Arab and Kurdish clients into its orbit. Byzantium also sought to resolve its relationship with an expanding Bulgarian state, uncomfortably close to Constantinople both geographically and ideologically. In Semester 1, this module will trace the interaction of Byzantium with its immediate neighbors and distant powers through a wide range of translated extracts and material evidence. There were acute differences of opinion over the direction and rate of expansion, prompting civil war although never secession. In semester 2 we shall examine the economic and social foundations of Byzantium, the role of the court in Constantinople and the workings of the administration. The revival in literary, artistic and architectural activity will be placed against this backdrop.

Class Hour: To be arranged.

Teaching: Three hour seminar and occasional practicals and lectures.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

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ME4813 Kings and Holy Men in the Merovingian World

Credits: 60 Semester: Whole Year

Availability: 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: At the end of the 'Dark Ages' the Frankish kingdoms were transformed through clashes between secular and religious values. Holy men challenged the standards of royal and ducal courts, while a generation of 'aristocratic saints' developed around noble factions. This module traces the shift in ideals from the harsh asceticism of St Columbanus (d.615) to the reforming spirit of St Boniface (d.754), while examining the problems idealists faced in a world of earthly sanctity, political factionalism, and superstition. In the first semester the module will examine the structures of authority in the changing Merovingian world, from its 'long-haired kings' to Episcopal organization. The second semester offers a thematic study of interaction between religion and society. Students will draw on the wealth of hagiographical material for the period alongside letter collections, charters and prescriptive literature.

Class Hour: To be arranged.

Teaching: Three hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4814 Iran from the Sasanids to the Samanids (224-1003)

Credits: 60 Semester: Whole Year

Availability: 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module is intended to take an in-depth look at the changing nature of Iran from the perspective of its politics, religion and culture in the period ca. 200-1000. During this time it went from being an expansive imperial power (3rd - 7th centuries) to a defeated province of the early Arab state (7th - 8th centuries), to the heart of a new Islamic empire (8th - 9th centuries) and finally the home of a number of Iranian dynasties (9th century onwards). The module will look at such issues as Sasanid Iran's place in Late Antique culture, the passage from Zoroastrianism to Islam, the meaning of Iranian identity, Iran's impact on Islamic culture and politics, the significance of the rise of the New Persian language, changes in the social makeup of Iran over the period under study, and so on. While following a broad chronological perspective, students will be encouraged to engage with the themes and historical tensions highlighted by the module.

Class Hour: To be arranged.

Teaching: Three hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4901 The Cult of Saints

Credits: 60 Semester: Whole Year

Availability: 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module studies a central aspect of mediaeval religious life, the veneration of the saints. In the first semester we will survey the history of the cult of the saints from its origins to the Reformation, drawing on sources and literature from the whole of western Christendom. In the second semester we will take a detailed case study. Issues covered include the patronage of the saints, hagiographic literature, miracles of healing and punishment, the canon law of relics, the geography, chronology and sociology of cults, the political aspect of cults and the surviving material evidence of shrines, buildings and pictorial representations.

Class Hour: 9.30 am - 12.30 pm Wednesday.

Teaching: Two one-and-a-half hour seminars.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4904 England and France at War in the Fourteenth Century

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the second year of Honours Programme

Description: The traditional dates of the Hundred Years War are 1337-1453. It was from the 1290s, however, that tensions began to build between England and France in the regions (such as Gascony, Scotland and the Low Countries) which were to play the crucial role in the outbreak of war in 1337, and it was during the first two decades of the fourteenth century - at Courtrai in 1302, for example, and at Bannockburn in 1314 - that the new military tactics which were to prove so effective after 1337 were developed. The initial aim of this module is to study the diplomatic and military history of England, France and their allies both in the build-up to full-scale war and during the first two phases (1337-96) of what is known as the Hundred Years War. It also looks in detail at areas such as military organisation, the chivalric ethos, the laws and customs of war in relation to things such as sieges or the treatment of prisoners of war, the economic and social impact of war, and the literature of war. A substantial part of the course will be devoted to in-depth study of contemporary chronicles of the war, particularly the chronicles of Jean Froissart.

Class Hour: 9.30 am - 12.30 pm Wednesday.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4905 Lords of the Landscape: Shepherds and Sheep in Mediaeval England and Castile

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the second year of the Honours Programme

Description: This module aims to combine economic, social and landscape history, geography and archaeology to establish a comparison between the development of Castile and England in the Late Middle Ages. It will look at the environmental consequences of the main economic activities in both regions, sheep-grazing and the international wool trade. The module also aims to introduce students to major environmental debates and the relevance of history to understanding long-term environmental change.

Class Hour: To be arranged.

Teaching: Two one-and-a-half hour seminars.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

ME4998 Honours Dissertation in Mediaeval Archaeology

Credits: 30 Semester: Whole Year

Description: Specialised dissertation of 7,500 - 10,000 words on a topic in Mediaeval Archaeology for Honours students in the Mediaeval History and Archaeology degree.

Teaching: Tutorials as required.

Assessment: Dissertation = 100%

Modern History (MO) Modules

MO3005 The Early Reformation in Europe, 1517-1555

Credits: 30 Semester: 2

Description: This module examines the development of the Reformation as a European movement in the period of 1555. The central question addressed is why, having made such an impact on Germany, the Reformation made only sporadic progress elsewhere. Cases studied include France, England, the Netherlands, Spain and Italy. The second half of the course explores the different media of conversion through which the evangelical message was communicated.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 100%

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MO3011 Society and Religious Change in Sixteenth-Century France

Credits: 30 Semester: 1

Availability: Not available 2009-10

Anti-requisite: MO4902

Description: This module examines how France faced the two major challenges of the age: the trend towards more centralised state-building, stimulated in part by the changing nature of warfare in the sixteenth century and the urge on the part of European monarchies to create a new monarchy; and the challenge posed by the divisions of European Christendom resulting from the Protestant Reformation. A central question to be answered is why France succeeded in meeting the first challenge so successfully, as epitomised by the 'Renaissance' monarchy of Francis I, but then collapsed so weakly in the face of the growth of Calvinism in the second half of the century.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 100%

MO3015 The Mental World of the Individual and the Collective in England, 1550-1800

Credits: 30 Semester: 2

Description: Men, women and children in pre-industrial England lived in a very different world from their twentieth-century counterparts. Life was insecure, painful and short; understanding of man and nature was rudimentary; belief systems were very different. The material and intellectual environment produced distinctive and fascinating attitudes. By examining the way people thought and acted about (for example) death, being young or old, magic, and crime; about the material and the spiritual context; about themselves and about those around them - we can recreate the changing mental world of the English as individuals and as a society.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3019 The Life of the Mind: Key Texts in European Thought, 1512-1697

Credits: 30 Semester: 1

Description: This module explores the history of European thought between the late Renaissance and the beginning of the Enlightenment. The class will study (in translation) some of the most important texts from this period, including the work of Machiavelli, Montaigne, Grotius, Bacon, Hobbes and Bayle.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3020 Literacy and Society in Europe, 1500 - 1800

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: The period between the reformation and the French Revolution saw unprecedented shift from restricted to mass literacy across much of western Europe. During these three centuries, a majority of adult males in western Europe achieved basic literacy; the quality and quantity of publications changed rapidly; ideas influenced education, literacy, and literature, and were in turn influenced by them. Secular ideas spread in an age when much education was provided by clerics and when both elementary and post-elementary education focused on religious texts. This module will explore the extent of literacy, trends in publishing, the nature and extent of schooling and university training, the ideologies behind education, and the changing nature of oral and literate forms in everyday life. Fascinating and important in itself, a study of literacy and education provides an essential background for understanding the political, economic, and social development of early modern Europe.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3023 Disease and the Environment, c. 1500 - 2000

Credits: 30 Semester: 1

Description: Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this module examines the manner in which sickness and death have shaped human history – both biologically and culturally – over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanization, and industrialization, students will gain an appreciation of the historical relationships between the environment and disease.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3025 Empire and Nation: The Development of Colonial British America, 1607-1770

Credits: 30 Semester: 1

Description: This module will explore the cultural and social aspects of European settlement in British North America, with a view to introducing students to the factors that shaped and challenged the formation of these new societies. Special emphasis will be placed on the wide-range of expectations and experiences that early settlers had of their New World and the effect of these forces on the ensuing colonies. The module will also address the question of an emerging American culture and identity and its relationship to metropolitan-colonial interaction.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3026 Art and Piety in Western Europe, 1400-1750

Credits: 30 Semester: 2

Description: What can visual evidence tell us about religious belief? This module will begin by exploring the use of religious images during the late-mediaeval period. In the sixteenth century Protestant reformers questioned the value of religious art, and in parts of Europe there was an extensive iconoclasm. The module will consider the motives of the iconoclasts and the forms that their actions took. The module will also look at Catholic attempts to reform religious art and at the flowering of visual piety in the wake of the Council of Trent. Seminar classes and student assignments will make extensive use of pictures as well as of texts.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3027 Women and Men in Europe, 1500-1800

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: What were relations between women and men like during the early modern period? This module will assess the impact of major intellectual and social movements - the Renaissance, the Reformation and the Scientific Revolution - on legal, scientific and philosophical ideas about women. It will also examine women's day-to-day experiences, focusing on themes such as marriage and the family, sexuality and the body, work and religion. It will explore notions of masculinity and femininity, considering how these were constructed and how their meanings have changed over time.

Class Hour: To be arranged

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

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MO3033 Europeans in Asia in the Early Modern Period

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module considers the exploration and exploitation of the East Indies in the early modern period. From the earliest voyages of discovery by Portuguese explorers in the late fifteenth century, the module traces the development of early trading European trading networks that initially integrated with existing Arab and Asian commercial structures and the expanding Mogul empire. From these mutually beneficial exchanges the module follows the conflict that emerged between the contesting monopoly companies that led to the eventual colonization of most of South East Asia by European powers. Viewed from the perspectives of the various concerns, the module poses questions relating to the politics, religion and cultural interaction of this important geo-political region.

Class Hour: 3.00 - 5.00 pm Tuesday.

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3034 Picturing Politics and Society in Early Modern England: Images of Power and Corruption from Van Dyck to Gillray c.1630 - c.1800

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module will investigate how early modern English men and women *saw* politics and society in prints and paintings. Pictures were potentially accessible to all social groups, from the illiterate poor to the wealthiest aristocrats. Although it has been argued that 'iconophobia' - the hatred of images - was a distinguishing characteristic of the English Reformation, visual representations of social trends and political events were an increasingly important part of life in the seventeenth and eighteenth centuries. Through the semester we will look at key themes through visual sources, and consider the benefits and pitfalls of such an art-based approach.

Class Hour: To be arranged

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3035 The Decline of Spain 1556 - 1700

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: The rise and decline of Spain as a world power in the sixteenth and seventeenth centuries is one of the great epics of history. By the 1580s Philip II governed not one but two empires – Spain and Portugal – on which the sun never set. Yet centrifugal forces within this massive territorial agglomeration, most severely manifested in a series of major rebellions, slowly pulled it apart, and these strains were compounded by natural catastrophes. This module will look at how and why the Spanish Monarchy under the Habsburgs lost its cohesion, its primacy in European power relations and its economic stability. It will also examine the cultural policies of the Monarchy and consider what really mattered to the governing elites and their subjects in this diverse early modern composite state.

Class Hour: To be arranged

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3036 The Italian Renaissance

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module introduces students to some of the major texts, topics and questions that define the period of the Renaissance. Students will develop skills in close analysis of primary sources and critical reading of the historical scholarship. In addition, students will learn both the traditional definition of the period and a variety of more recent scholarly assessments; this will enable them to summarize and evaluate scholarly arguments of the nature and value of this historical period.

Class Hour: To be arranged

Teaching: One two hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3037 Renaissance Information Technology and Print Culture

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module provides an introduction to the revolutions in communication and technology that transformed Europe between 1400 and 1600. This module addresses a crucial question for our age of technology: how does the way we receive information affect how we think, and what we learn? This question was asked long before our own technology-loving era. Knowing more about the history of what we now call information technology enhances our understanding of modern communications. We will learn about printing techniques, the local and international print economy, uses of the press in the early modern period, the growth of libraries, and censorship.

Class Hour: To be arranged
Teaching: One two hour seminar.
Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3038 War and the State in the Era of the “Military Revolution” (1550-1730)

Credits: 30 Semester: 2
Availability: 2009-10

Description: The early modern period saw considerable changes in the shape of warfare and in the nature of armed forces and the state, a process some historians have described as a “military revolution”. Yet the increasing pressures of war brought about considerable social, economic and political breakdown, as rulers overburdened both their armed forces and their domestic subjects. This module will examine how western European states organised and conducted war between the late sixteenth and the early eighteenth century, and consider what effects this had on political stability. The focus will be not only on some of the great powers but also upon some minor states who punched above their weight on the international stage.

Class Hour: To be arranged
Teaching: One two hour seminar.
Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3110 African Americans in Slavery and Freedom, 1620-1865

Credits: 30 Semester: 2
Availability: Not available 2009-10

Description: An exploration of the experiences of Africans in America from the beginnings of slavery until the American Civil War. The module focuses on the social, cultural and economic aspects of African slavery and freedom during the era in which America was transformed from a colony into a new nation. In particular we will address diversity of experience with discussions of slaves who worked on the land, in the cities, and on the seas. Attention will also be devoted to the Atlantic slave trade, how societies construct race, the world of America's slave owners and memory and slavery.

Class Hour: To be arranged.
Teaching: One 2 hour seminar.
Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3111 The Restoration Worlds of Samuel Pepys

Credits: 30 Semester: 2

Description: Samuel Pepys's diary is one of the most famous ever written, chronicling the author's hectic life during the exuberant 1660s, the decade of Restoration. This module will explore the many worlds in which Samuel Pepys moved with immense energy and ambition. Courtier, bureaucrat, husband, master, Londoner, reader, gossip - Pepys offers a number of perspectives on contemporary attitudes and affairs. His diary will be the key text used, not least as an important focus of study in its own right as a complex historical document. This will be supplemented by use of Pepys's letters, including those recording his friendship with another diarist, John Evelyn. Overall, the module will aim to use Pepys as a window through which to examine English social and political life in the aftermath of the English Revolution.

Class Hour: To be arranged
Teaching: One two hour seminar.
Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

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MO3214 The Decline and Fall of the Old French Regime, 1715-1789

Credits: 30 Semester: 1

Description: Eighteenth-century France was the cultural leader of Europe, but mounting domestic difficulties made its efforts to remain the arbiter of power on the continent increasingly difficult to sustain. At home the absolute monarchy had great difficulty in adjusting to changing political, social and cultural expectations that would eventually engulf the Bourbon state as its international adventures produced financial bankruptcy. This module will explore France in the reigns of Louis XV and Louis XVI in order to understand the nature of old régime state and society, and the difficulties under which its people and rulers laboured. It will also give students the opportunity to engage with one of the most controversial subjects in European history: the origins of the French Revolution.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3215 Persia in the 18th Century – 1722-1834 (The Age of the Warlords)

Credits: 30 Semester: 2

Description: The purpose of this module is to look at a critical if under appreciated period of Persian (Iranian) history between the fall of the Safavid Empire in 1722 and the consolidation of the Qajar state in 1834. This was a period of dynamic change and transformation characterized by the rise and fall of competing dynasts who ruthlessly sought to re-establish the imperial legacy of the Safavids under their own particular leadership. This protracted period of turmoil was to have a lasting impact on the character of Persian state and society which can be felt to this day particularly with respect to the changes in the cultural and religious landscape of the country. The course concludes with an assessment of the early Qajar state and the impact of European intervention, in particular Persia's two wars with the expanding Russian empire which were ultimately to result in the loss of great power status.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3216 Science and Nation-Building in Europe, 1750 - 1900

Credits: 30 Semester: 2

Description: "What is your native language?" In 1817, for the first time ever, the population in the east Prussian district of Gumbinnen was confronted with this question in a census. And it came back every three years. Thus, the traditional multi-linguistic population had to decide: German or Polish? The 19th century is seen as the time of state- and nation-building in Europe. What role did sciences play in this process? Why did the 19th century produce more maps and atlases as ever before? The course provides an introduction to the field of nation and nation-building. It focuses on disciplines such as cartography, demography and statistics in order to link the history of science to the history of the nation-state.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3217 Travel Cultures in Europe in the 18th and 19th Centuries

Credits: 30 Semester: 1

Description: The time between roughly 1770 and 1850 was the classical age of travel and travel writing. What used to be an exclusive practice of nobles in the early modern period became less exclusive during the second half of the 18th century. Along with the emergence of the European bourgeoisie and the development of book markets, travelogues became a major - if not the main - source of information and knowledge within Europe around 1800. What is more, they constituted a main source for sciences such as geography, statistics as well as for images of national or regional characters. Thus, travelogues are an important source that allows analyzing how people perceived Europe (and the world), how travelers perceived space or described the crossing of borders.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3218 The American Revolution

Credits: 30 Semester: 2

Description: The first of a number of late eighteenth century uprisings overturning powerful monarchies, the American Revolution brought about the demise of Britain's first empire and resulted in the writing of the Constitution and the establishment of democratic government. This module will focus on the forty years after 1763, examining the reasons why Americans sought to free themselves from British rule, the experience of Revolutionary War, and the problems faced by those who made it their task to design a new form of government for the United States. As well as telling the story of the elite rulers who were at the forefront of the rebellion, the module will also explore the experiences of everyday Americans during these decades of tumultuous social and political change.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3302 Imperial Russia, 1815-1917

Credits: 30 Semester: 1

Description: The decline of Imperial Russia is analysed from the defeat of Napoleon, through attempts at reform, the rise of the Bolsheviks and other opposition movements, to the collapse of Tsarism in February 1917. In addition to the study of underlying political, economic and social factors, intellectual and ideological developments are examined. Aspects of foreign policy are also considered.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3308 Approaches to Historical Theory

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This introductory module asks questions about the degree to which, and the ways in which, history may be considered a theoretical subject. The module will be organised around the problems posed by the nature and limits of historical knowledge; the shaping of the past by historians; the validity of historical explanations; and competing styles of method deployed by historians over the past two centuries. No philosophical background is required.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3309 The Evolution of British Democracy, 1832-1918

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module studies the participation of the British public in the political processes and institutions of the country which underwent a major transformation between 1832 and 1918. It focuses on the nature and significance of the extension of political activity from a small elite to a mass democracy. Central questions will relate to the place of the franchise in political behaviour and its implications for the status of excluded groups.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

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MO3314 Environmental History: Nature and the Western World, 1800-2000

Credits: 30 Semester: 2

Description: Recently, a number of people have suggested that the post-Cold War era should be recognized as 'the Age of the Environment'. The scale and pace of human-generated environmental change, which has occurred in the wake of the Industrial Revolution, is historically unprecedented. This module explores the roots of modern environmentalism through an examination of environmental change and the cultural responses to it. Key texts from the USA and Britain provide a focus for analyses of the political, religious, and scientific beliefs that have shaped relationships with nature. Principally, this module provides an intellectual and political history of modern environmentalism from the eighteenth century to present. No scientific knowledge is required by students.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3317 A 'Struggle for Mastery in Europe'? German Foreign Policy from Bismarck to Hitler, 1871-1939

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: 'What is wrong with Germany,' A.J.P. Taylor once observed provocatively, 'is that there is too much of it.' After two World Wars, it seemed that because of its size, geopolitical position and power-political ambitions, the German Reich had posed a threat to Europe ever since 1871. Starting from the observation that the foundation of the Reich was followed by more than forty years of European peace, however, recent research has emphasised the ambiguity of Germany's role in international politics. This module will trace the course of German foreign policy from the Franco-Prussian War, through the Bismarck and Wilhelmine periods, the First World War and the inter-war years until the outbreak of World War Two. While focusing on the major foreign-political developments between 1870 and 1939, the course will also consider the instruments of German foreign policy; the social, economic and cultural forces influencing it; and major historiographical debates which have arisen over it.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3318 Revolutions, Nationalism and Reaction: 1848-1849 in the German Lands

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: Contemporaries called it the 'Crazy Year'. After decades of governmental oppression, the revolutions of 1848 threw Germany into an intoxicating period of liberty and change. German society underwent a process of political mobilisation. Peasants, craftsmen, workers, liberals, radicals, nationalists, Catholics, Protestants, Jews, even women and proto-imperialists set about addressing their grievances. In order to establish new rights and institutions they utilised a wide spectrum of political means, ranging from riots to elected constituent assemblies. Their objectives were similarly heterogeneous. Peasants near Magdeburg demanded more pasture for their geese; the deputies of the Frankfurt Parliament tried to create a constitutional nation state. This module will try to draw an analytical portrait of the origins, events and consequences of seventeen dazzling, dramatic, momentous months in German history.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3319 'Power without Responsibility'? The Press and British Politics, 1850 - 1939

Credits: 30 Semester: 1

Description: This module will examine the role of the press in the developing political culture in Britain from the mid-19th century to the coming of the Second World War. In this period the British press is widely believed to have exercised a degree of political influence not seen either before or since. The module will evaluate the formulation and construction of new political, social and cultural concepts during a period of rapid and continuous change. In part this was the result of fundamental changes transforming society and the economy such as the rise of assertive imperialism, the growth of universal franchise and literacy, the impact of the First World War, long term economic decline, and changing attitudes toward the people - the reading, voting and consuming public. These changes acted simultaneously on the media and political worlds and necessitated reciprocal adjustment by both. Other changes, such as innovations in communication technology, impacted primarily upon the media and were responsible for changes in political practice.

Class Hour: To be arranged.

Teaching: Lecture and Seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3320 Imperialism and Nationalism: The British Empire in India 1857 - 1947

Credits: 30 Semester: 2

Description: This module will focus on "the Jewel in the Crown" - Britain's empire in India. The aim is to provide both an overall view and understanding of the development of the Raj as well as more in-depth knowledge and appreciation of select key issues, events and personalities. The Years of direct British rule from 1858 to Independence in 1947 with the partition of the sub-continent into India and Pakistan, will be studied through an examination of rebellion and revolt in the mid 19th century, consolidation of imperial power through strategies of coercion and collaboration, the rise and growth of an Indian nationalist movement from the late 19th century; the impact of two World Wars, economic costs and benefits of empire, the role of Gandhi and the ideology of non-violent protest, religion and politics - the growth of Muslim separatism and the trauma and bloodshed of Partition.

Class Hour: To be arranged.

Teaching: Lecture and Seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3321 Russia – Real and Imagined: Ideas, Identity, and Culture (1800-2000)

Credits: 30 Semester: 2

Description: Situated on the borders of Europe and Asia, Russia has always been an enigma for Western observers and scholars, by turns inspiring admiration as the exotic 'other', and discomfort as the untamed brutish bear. Yet, this conflicting 'sacred/profane' image has been as much a part of intellectual rhetoric in Russia itself, as it has been the cause for divided opinion abroad. As Russian intellectuals thought about their country's cultural (and spiritual) development, past and present, they often did so 'under Western eyes'. Whether critical or indulgent, their views testify to complex inter-relations with European neighbours. With this in mind, we shall explore a number of leitmotifs in Russian intellectual culture, together with the contexts in which these were first elaborated. In addition, we shall identify instances of their recurrence as a 'resource' in late and post-Soviet endeavours to re-articulate the 'authentic' nature of Russian culture.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3322 French Algeria, 1830-1962

Credits: 30 Semester: 1

Description: Between the conquest of 1830 and independence in 1962, Algeria was the figurehead of the French empire and a breeding ground for the theories and practices of colonialism that were implemented elsewhere. This module examines French and Algerian experience in colonial Algeria, considering the initial process of pacification, Algerian resistance, French colonial doctrines, French views of the Algerians, the emergence of anticolonial nationalism, the struggle for liberation. The War of Independence, a major political and social crisis with lasting effects on contemporary France and Algeria, will be studied in detail, and the module will also address the legacy of colonialism in both nations.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

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MO3326 Jihad, Community and Identity: Islamic political thought past and present

Credits: 30 Semester: 1

Description: This module will present a survey of the key aspects of the political thought of Islam. The aim will be to provide an understanding of the issues and problems facing the modern Middle East, but to achieve this it will be necessary to give students a grasp of the formative events and debates in Islamic political thought, since these continue to inform modern discussions about Islamic politics. In particular, there will be a focus on the dilemma of modern Muslim countries: how to reconcile crucial Islamic political concepts (the nature and form of Muslim community and identity and the relevance of jihad) with modernity.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3327 Modern Iran since 1834: reform and revolution

Credits: 30 Semester: 2

Description: This module looks at developments in Iranian history from the 19th century to the present with particular reference to the impact of the West. The module will assess the various attempts at reform and the consequences of revolution in a country which is proving to be a major regional and international actor in the 21st century. The module will look at the way in which imperial decline has been managed with a view to reversing and restoring Iran's fortunes as a Great Power. Particular attention will be given to political development. The growth of the modern state and the emergence of nationalism and political Islam.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3328 Making Italians: Region, nation and empire in Italy from Unification to Fascism

Credits: 30 Semester: 1

Description: The Risorgimento novelist, Massimo D'Azeglio's maxim that "having made Italy, it now remains to make the Italians" has become something of a truism for historians of modern Italy. Certainly, a perception of the need to build a nation and a national identity preoccupied Italian political and cultural elites but this insistence on a nation=building enterprise which sought to drag allegiance of 'Italians' from their local campanile towards Rome seems to privilege a view of the rise of the nation-state as leading inexorably (and positively) to the dismantling and waning of local identities and loyalties. Historians have more recently focused their attention upon the often ambivalent intersection between regional, national and imperial identities, conceiving the connections between them as both potentially conflictual and concordant. This module will introduce students to the complex nature of nationalism and nation-building in late nineteenth and early twentieth century Italy, asking students to think conceptually about the interplay of the local, the national and the colonial and about the processes of constructing individual, national and imperial identities.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3329 The Kaiser. Aspects of Emperor Wilhelm II, 1859-1941

Credits: 30 Semester: 1

Availability: 2010 - 11

Description: Revered as the "modern central person" or described as simply insane, Germany's Kaiser Wilhelm II (1859 - 1941) played a central and highly visible role on the European political stage. Over the last 25 years the fascination this mercurial and deeply problematic ruler held for his contemporaries has been echoed by a large body of sophisticated historical scholarship. Focusing on Wilhelm's personality and his politics as well as on the context and structure of his reign, historians have explored the importance of key issues such as psychological trauma, disease, media, publicity, scandal, monarchical networks, modern kingship and political culture. This module will examine selected aspects of the life of Wilhelm II in order to arrive at an analytical evaluation of this individual and his impact as well as of the wider political and cultural world which he inhabited.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3402 The United States since 1896

Credits: 30 Semester: 2

Availability: Not available 2009-10

Anti-requisite: MO3505

Description: This module will examine modern America, with an emphasis on political, diplomatic, and social developments. The underlying themes will be the emergence of the United States as the predominant world power, the fluctuation at home between phases of liberal and conservative reform, and the changing nature of the American Presidency. The salient issues of the period will be explored, including the civil rights movement, the Reagan years, the World Wars, and the Cold War.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3406 The Soviet Union

Credits: 30 Semester: 1

Description: The emergence and development of the Soviet Union is traced from the Bolshevik Revolution of October 1917, via the period of Stalin's dictatorship and the leaderships of Khrushchev and Brezhnev, up to the end of the Gorbachev era which culminated in the dissolution of the Union in 1991. The module studies interlinked political, ideological, social, economic and cultural themes. The role of the Soviet Union on the international stage is also examined.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3410 The Third Reich: History and Historiography

Credits: 30 Semester: 1

Description: Scrutinising primary sources and drawing on a wide range of literature, this module will critically analyse the contested nature of the Third Reich. It will discuss the main facets of Nazi domestic policy, comprising political, social, economic and cultural developments. Strong emphasis will be laid on historiographical issues like the debate on the German *Sonderweg* or the nature of Hitler's rule. Against the background of the empirical findings discussed in the module, various labels will have been attached to the Third Reich, such as 'fascism', 'totalitarian dictatorship', 'political religion', 'atavistic' or 'modern tyranny' will be examined.

Class Hour: 11.00 am - 1.00 pm Friday

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3419 The French 'civil wars' of the 20th Century

Credits: 30 Semester: 2

Description: This module explores the notion that 20th century French history can be seen in terms of 'Franco-French wars', between opposing ideologies, social classes, and conceptions of French identity. Beginning with an introduction to the most important issues which have divided the French since 1789, the module examines episodes such as the Second World War occupation, the difficult break-up of the French empire, and the May 1968 'revolution', focusing on the central themes of unity and division. The module concludes by looking at the effect that the legacies and memories of conflict and division have had on contemporary France.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

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MO3421 Making People's Music: Folk Music Revival and Society in the United States, 1900 - 1970

Credits: 30 Semester: 1

Description: This module explores the development of the relationship between folk music revival and wider society in the twentieth century United States. During the late 1950s and early 1960s, folk music attained an unprecedented level of popularity in the US, particularly among politically active young people. As it became the ideal medium through which to express the desire for social change and ideals of community and solidarity, a new generation of perceptive songwriters - including Tom Paxton, Joan Baez and Bob Dylan - became vital spokespeople for their generation. The module aims, through use of primary texts, films and music, to examine and to evaluate this movement from its roots to its legacy.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3422 The United States in Depression and War (1929-1945)

Credits: 30 Semester: 2

Description: This module examines the United States during the turbulent and difficult 1929-1945 period, with a particular emphasis on society, culture and politics. These to be examined include the Wall Street Crash and its immediate impact; the presidency of Franklin Roosevelt; impact of Depression and War on women and minorities and on the regions of the United States; the New Deal and its consequences' the art and culture' isolationism and the road to war; the Home Front and life for the forces during World War II; and the impact of this era on society as a whole.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3423 Dictatorship in Practice: Everyday Life in Fascist Italy, Nazi Germany, Franco's Spain and the Stalinist Soviet Union

Credits: 30 Semester: 2

Description: This module explores the 'lived experience' of dictatorship in Fascist Italy, Nazi Germany, Franco's Spain and the Stalinist Soviet Union. As such the module provides an introduction to the historiographical and conceptual approaches and empirical research surrounding the history of everyday life, an area of historical study which has gained increasing importance over recent decades. It also permits detailed insight into social and cultural policies and practices within the major European dictatorships of the mid-twentieth century. Our aim is to reveal how far these regimes succeeded in penetrating and appropriating the daily practices and 'private' worlds of the individuals they governed, as well as to note the complexities of 'ordinary' people's lived experience of dictatorship and their responses to the intrusion of the regime and its cultural products into their day-to-day lives.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3502 War and Welfare: Britain 1939-1951

Credits: 30 Semester: 1

Description: This module covers the period from the outbreak of war in 1939 to the end of the Attlee Governments in 1951. The emphasis will be on the social, cultural, economic and political impact of the war on Britain. It will examine whether wartime experiences led to consensus in favour of a comprehensive welfare state, and how the social, economic and political consequences of the war determined the shape of the welfare state which Labour brought into being after 1945.

Class Hour: 11.00 – 1.00pm Thursday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3504 Central and Eastern Europe since 1945

Credits: 30 Semester: 2

Anti-requisite: MO3503

Description: The collapse of the Soviet sphere of influence in Eastern Europe during 1989 has been amongst the most dramatic developments of recent years. The pattern of Soviet domination of this region is traced from the end of the Second World War through an examination of both the common and individual responses to this in the nations concerned. Countries studied include former East Germany, Poland, former Czechoslovakia, Hungary, Romania and former Yugoslavia.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3507 The Kennedy Years

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: The module will seek to debunk some of the myths surrounding President John F. Kennedy. Starting with his early years and the influence of his father, it will chart his narrow victory in the 1960 presidential election and cover his crisis management and the twin track approach of his foreign policy. It will explore his domestic record and his position on Civil Rights and highlight controversies over his intentions in Vietnam, the assassination and the subsequent hagiography. Class discussion will be supplemented with excerpts from television documentaries, access to digitalized original documents, MP3 recordings of ExComm meetings during the Cuban Missile Crisis and landmark speeches, and AIV Video of the Nix and Muchmore films of the assassination. Students will be encouraged to challenge the historical accuracy of films such as JFK, 13 Days and the Fog of War.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3508 America and Vietnam

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: America's involvement in Vietnam will be examined in the widest possible sense. Topics will include the reasons for the intervention, the nature of the war, the effect on American Cold War foreign policy and the reasons for the American defeat. The course will also study the effects of the war on the culture of the 1960s and the enduring legacy of the Vietnam experience.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

MO3513 Heavenly Decade: The 1960s

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module will concern itself with the 'Sixties experience' as a worldwide phenomenon. The culture of 'sex, drugs and rock and roll' affected youth around the world. Social conventions were torn down in the frenzied obsession with rebellion and the 'counterculture'. But there was also a majority who neither tuned in, turned on, nor dropped out - youths who deplored the drug culture, held sex sacred, and preferred the Beatles to the Rolling Stones. The module will examine the links between countercultural movements in Berkeley, Berlin, Paris, Mexico City and elsewhere. Due primarily to the availability of sources the module will have an American bias, but there will be sufficient exploration of youth movements in other countries to provide an illuminating cross-cultural perspective. The module will also explore whether the heavenly decade was mainly myth, important more in retrospect than at the time.

Class Hour: To be arranged.

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

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MO3514 The Life and Times of the Atom Bomb

Credits: 30 Semester: 1
Anti-requisite: IR3010

Description: The module examines the period from 1900 to the present day not from the point of view of a single nation but from the vantage point of a single, catastrophic weapon. It combines science with politics, diplomacy, culture and social history. The first few sessions will concentrate on the development of the bomb and its effect upon the scientific community. We will then move to the use of the bomb in 1945, the development of more powerful weapons and the effect of these on Cold War relations. The module also examines how the bomb affected the lives of ordinary people, particularly in the areas of civil defence, peace movements, and popular culture.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3516 Popular Culture, Nation and Society: Leisure in Britain 1880-1960

Credits: 30 Semester: 2
Anti-requisite: MO3502

Description: This module will explore the extraordinary growth of popular culture in Britain, c 1880-1960, from Victorian music hall to 'Teddy Boys'. It will study the key subjects of music, cinema, radio, sport and popular literature. Popular culture in Britain has never developed in a vacuum, therefore it will be examined in a broader historical context. Through selected case studies the module will trace the historical development of the agencies, institutions and audiences associated with the production and consumption of popular culture. It will analyse this expansion from before the First World War, through to the Second World War and beyond, ending with the major developments of the early Post War years.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3518 Intellectuals in Interwar Europe, 1918-1939

Credits: 30 Semester: 1
Availability: Not available 2009-10

Description: Interwar Europe underwent a deep crisis of modernity, which was above all a crisis of liberalism and pluralism. The First World War marked the beginning of a 'time of ideologies' (K.D. Bracher), which was primarily characterized by a bitter fight between democracy and dictatorship, between reformist and revolutionary beliefs. This module examines the role of intellectuals in that harsh struggle for 'cultural hegemony' (A.Gramsci). It aims in particular at their views on central ideas of European political thought such as 'state', 'democracy', 'nation' or 'society'. By looking primarily at Germany, Italy, France and Great Britain, the module sheds light on the various streams of political thinking in interwar Europe, and gives an insight into the reasons of her fundamental political instability.

Class Hour: 11.00 am – 1.00 pm Friday

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3519 Dictators in 20th-century Europe

Credits: 30 Semester: 1
Availability: Not available 2009-10

Description: Europe's 20th century is the story of the fundamental conflict between liberalism, fascism, Nazism, and communism. The fierce struggle for a 'perfect' new order led to the rise and fall of numerous dictatorships on the 'dark continent' (M. Mazower) of Europe: Fascist Italy and Nazi Germany, the authoritarian regimes in Spain and Portugal, the communist empire of the Soviet Union and the socialist experiment of the GDR. Against the backdrop of a conceptual reflection of 'fascism' and 'totalitarianism', this module examines the main characteristics of these dictatorial regimes, and aims to draw comparisons between them. By so doing, the module sheds light on central mechanisms of anti-pluralistic styles of rule in modern Europe.

Class Hour: 11.00 am – 1.00 pm Friday

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3520 Political Culture in Postwar European Democracies: History, Memory & Identity, 1945-2005

Credits: 30 Semester: 2

Description: As Gabriel Almond and Sidney Verba put it in their highly influential study on *The Civic Culture*, the political culture of a nation is 'the particular distribution of patterns of orientation towards political objects among the members of the nation'. Which 'patterns of orientation', i.e. attitudes, basic beliefs and values, can be discerned in postwar European democracies? This is the basic question of this module. By taking the intriguing historiographical triangle of history, memory & identity as a heuristic starting point, the module aims at examining the different ways of coping with recent pasts in Germany, Italy, France and Britain. This allows revealing insights in various historical narratives and streams of political thought in postwar Europe, hence in crucial aspects of Western European political culture between 1945 and 2005.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3711 Radical Politics in England

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: Radicalism in England has a long and continuous history. It has had a profound influence on the shape of the state and society in which we live. Radical ideas have fed into debates on democratization, social equality and the relations between the sexes. This module investigates the history of the 'English Radical Tradition' from its late-mediaeval origins down to the present. Students will study Radicalism from its origin in mediaeval protest movements down to the Green Movement. Students will be encouraged to consider the 'Tradition' from both chronological and thematic perspectives, to reflect on how meaningful the idea of a 'Radical Tradition' is, and to consider the influence of Radicalism on key social and political developments.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO3712 An "Army with a Country"? The Military and Militarism in Prusso-German History, 1640 - 1945

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: When dealing with German diplomats and politicians before 1914 the British Foreign Secretary Grey found it frustrating that he never talked to the men who really directed policy. "The last and decisive war", he claimed in his memoirs, "was with some military and naval person." Grey's observation illustrates a well-established perception of pre-1945 Prussia/Germany as being ultimately committed to military principles, values and forms of organization. To many observers it was an army with a country and not a country with an army. This module seeks to explore what Gerhard Ritter called the "Problem of Militarism in Germany", from the foundation of the Brandenburg-Prussian military state in the seventeenth century to the destruction of the Nazi dictatorship at the end of the Second World War. While wars will inevitably feature, this module will not focus primarily on battles and military history in the narrow sense, but will examine the role of the military, the military mindset and military ideals in the formation and re-formation of the Prusso-German state and its politics, society and culture over a 300-year period.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

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MO3713 The American Metropolis

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: The United States is home to some of the most iconic, the largest, and the most violent, cities in the world, and this module traces their fortunes from foundation to the present. British America's towns began as small villages inhabited by a few intrepid settlers. By 1783, however, some towns had matured to become the site of the Declaration of Independence and the penning of the Constitution. Throughout the nineteenth century, rapidly growing cities continued to be at the cutting edge of the forging of the American nation. Looking at issues such as industrialization, immigration, the gold rush and the settlement of the west, crime and, finally, the process of "white flight" to the suburbs, the module will explore the distinctive and colourful story of urban life in the United States.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

MO4904 Madness and its Social Milieu in Britain, 1560-1820

Credits: 60.0 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: Madness is a source of fascination and dread in the modern world. The period between the end of the middle ages and the early years of the nineteenth century is seen as particularly important in forming our attitudes: because of changing understandings of and attitudes to insanity; and because of new types of care such as the origins of the asylum movement. In addition, analysing perceptions of mad behaviour allows unique insights to be gained into the social and cultural priorities of the sane. The module will allow students to use original documents to examine British society from an unusual perspective and to gain unique insights into the mental world of early modern people. In addition to the skills of critical reading, and documentary analysis, it will encourage an interdisciplinary and comparative approach, and will introduce students to quantitative research methodologies.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4912 French Absolutism: Richelieu to Louis XIV

Credits: 60 Semester: Whole Year

Availability: Available only to students in the Second Year of the Honours Programme.

Description: This module studies the establishment of stability and the growth of the royal state in France during the period 1610-1715. It examines both the theory and the practice of absolute monarchy and the way such a system of governance related to the wider French society. From the late 1620s traditional mechanisms of government were gradually recast and replaced by more centralised methods of political, social and cultural control. However, the encroachment of the royal state upon civil society met with both popular and elite resistance that had to be either crushed or defused through compromise deals before stability could emerge under Louis XIV. In this course students will focus not only upon political and administrative history but also upon associated religious, social and cultural developments, such as the growth of the royal court, the influence of the counter-reformation, the emergence of educational and artistic academies, and changing attitudes towards personal and political conduct. French is not required.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4913 Saints and Martyrs in Early Modern Europe

Credits: 60 Semester: Whole Year

Availability: Available only to students in the Second Year of the Honours Programme.

Description: Saints and martyrs were a key part of devotional life during the Middle Ages. This module will begin by considering late-mediaeval devotion to the saints, focusing on popular practices such as pilgrimage, on hagiographical writing and on mysticism. We will then consider the attacks made on the cult of the saints during the Protestant Reformation and will assess what replaced the saints in popular consciousness. Finally, we will look at ideas of sainthood during the Catholic Reformation. What did it take to become a saint in the religiously divided Europe of the seventeenth century? Throughout we will consider case studies, from Margery Kempe to Teresa of Avila, and the course will make extensive use of visual as well as textual sources.

Class Hour: To be arranged.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4914 The German Enlightenment in European Perspectives

Credits: 60 Semester: Whole Year

Availability: Available only to students in the Second Year of the Honours Programme.

Description: “What is Enlightenment?”, asked one of the leading German journals in 1783. Immanuel Kant’s famous answer was: “Enlightenment is man’s emergence from his self-imposed immaturity. Immaturity is the inability to use one’s understanding without guidance from another.” Since then the debate on this question has not come to an end. The course provides an overview on the Enlightenment. It gives an introduction into contemporary definitions as well as historiographical debates on the Enlightenment. Furthermore, it covers central aspects such as political, social, and cultural history in the 18th century. The course mainly focuses on the German lands but setting them in a European comparative context.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4915 Rebellion, Regicide and Revolution: The English Civil Wars and Interregnum

Credits: 60 Semester: Whole Year

Availability: Available only to students in the Second Year of the Honours Programme.

Description: Between 1637 and 1648 the Stuart monarchy imploded in civil wars and religious strife. In 1649 Charles I was publicly executed by his own subjects, creating a Europe-wide sensation. Thereafter radical sects threatened to overturn all existing social hierarchy, while Oliver Cromwell rose to be Lord Protector and military conqueror of Scotland and Ireland. This module will examine why these extraordinary events occurred; what contemporaries thought about them; and what effect they had on England. Emphasis will consistently be placed on the interaction of ideas and actions; personalities and wider trends. As well as looking in detail at the key chronological events of the period, the course also will involve consideration of broader themes. How did the strong monarchy inherited by the Stuarts from the Tudors implode so spectacularly? What impact did the crisis have on society? How did political and religious events in England interact with Scotland, Ireland, and Europe as a whole? Why did stability prove so elusive for successive political regimes? We will benefit throughout from the wonderfully rich and varied writings of contemporaries, both Royalists and Parliamentarians.

Class Hour: To be arranged.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

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MO4921 Britain and its Empire in the Age of the Consumer Revolution, 1660-1820

Credits: 60 Semester: Whole Year

Availability: Available only to students in the second year of the Honours Programme.

Description: This module will explore modern society's first 'consumer revolution'; that which gripped Britain and its American colonies from the late seventeenth century onwards. Themes include private consumers, manufacturers, the landscape and the town, and commercialisation. We will be investigating the role of fashion, mass-production techniques, innovation, the creation and expansion of markets and distribution networks, and questions of taste, style, emulation and class. Often, these phenomena have been addressed only from the point of view of leading industrialists and aristocratic consumers. However, as well as focusing on these figures, this course will also devote significant attention to the experience of small producers and lower class consumers during the period.

Class Hour: 9.30 am Wednesday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4932 Russians Making History, 1755-2000

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: How did Russians write about their past? What conceptual tools did they use? What influenced their approaches, and privileged their choice of subject matter censorship, ideology, the latest philosophical fashions in Western Europe, the quest for truth? Was the Bolshevik Revolution a tabular as a for historical knowledge, or just one of the more striking examples of the peculiar pendulum swings that have rocked Russia between revolution and reform throughout her entire history? The aim of this module, then, is twofold: to discover the works (and personalities) of a number of Russian historians active in the eighteenth, nineteenth, and twentieth centuries and ,through their eyes as professionals or amateurs re-examine aspects of the Russian past.

Class Hour: To be arranged.

Teaching: Two hour seminar

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4936 Bismarck: Biography – Politics – Mythology

Credits: 60 Semester: Whole Year

Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: A celebrated recent history of German accorded Otto von Bismarck almost biblical status. The book opens with a thunderous: 'In the beginning was Bismarck'. An opinion poll published by the 'Berlin Illustrated News' in 1899 declared him the greatest statesman of the century. This module aims to approach, understand and evaluate the life, career and personality of this alleged giant. Scrutinising a large selection of primary sources and drawing on a rich body of sophisticated secondary literature, we will try to appreciate Bismarck both as a shaper and a product of his time. Consideration will also be given to Bismarck's legacy in European and German politics as well as his role and function in the pantheon of Germany's political iconography.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4937 Charles Darwin and the Politics of Progress

Credits: 60 Semester: Whole Year

Availability: Available only to students in the Second Year of the Honours Programme.

Description: 'Darwin' and 'Darwinism' have left considerable historical legacies that pervade our contemporary culture. This module demonstrates how knowledge of the natural world in the nineteenth and twentieth centuries was shaped by religious, political, and social commitments; and how science, in turn, shaped general culture. Drawing upon the rich primary and secondary sources generated by the Darwin industry, this module examines progress and evolutionary theories. With reference to evolution, in general, and Charles Darwin, in particular, the module examines the implications of a belief in a constantly changing world, governed by natural laws. The module concludes with an assessment of the more recent 'Darwin wars', creationism, and Intelligent Design.

Class Hour: 10.00 am - 12.00 noon Wednesday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4938 Progress and Reform: The United States, 1880 - 1930

Credits: 60 Semester: Whole Year

Availability: Available only to students in the second year of the Honours Programme.

Description: This module explores the period 1880-1930 in the United States - an era of dramatic changes and extensive social and political reform. It examines the period in an intensive, thematic manner; both primary and secondary material will be used to study such themes as Industrialisation, Immigration, the Southern States, Populism and Progressivism, Women and Gender, the Arts and Foreign Policy. The module will employ both textual and non-textual primary sources. Alongside more conventional types of historical document, photographs, film, artworks and music will also be used as a lens through which to view this period.

Class Hour: 9.00 am - 12.00 noon Wednesday.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4939 Civil War and Dictatorship in Spain, 1936-1959

Credits: 60 Semester: Whole Year

Availability: Available only to students in the second year of the Honours Programme.

Description: The Spanish Civil War was not only a battle between 'two Spains', between two versions of what Spaniards thought their country should be, but also cast as an ideological showdown internationally; democracy versus dictatorship, socialism versus fascism. The module focuses on the political, social, cultural and economic history of the Civil War and Francoist dictatorship, tracing developments from the end of the Second Spanish Republic, through the establishment of the 'New Estate' until the close of what is commonly held to be the (more)_ fascist phase of Franco's regime, with the accession to political power of the 'technocrats' and their stabilization plan in 1959. Engaging directly with political tracts and speeches, newsreels, visual propaganda, literature, diaries and memoirs of the time, the module explores the Civil War and Francoist dictatorship as they were imagined, practiced and experienced.

Class Hour: 10.00 am - 1.00 pm Wednesday.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4940 Britain in the Era of the Great War

Credits: 60 Semester: Whole Year

Availability: Available only to students in the Second Year of the Honours Programme.

Description: This module will cover the reasons for going to war, the experience of the common soldier, the lions vs donkeys debate, the war economy, the home front experience and the efforts at reconstruction. Each topic will be covered over a fortnight, with seminar discussions and analysis of primary source material.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

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MO4944 The Diplomatic Prelude to the Second World War

Credits: 60 Semester: Whole Year
Availability: Available only to students in the Second Year of the Honours Programme.
Anti-requisite: MO3411

Description: The causes of the war are traced through the shortcomings of the Versailles settlement of 1919, the development of totalitarianism in Mussolini's Italy, Hitler's Germany and Stalin's USSR, and the inadequacy of the British and French responses to this challenge, culminating in the Munich Agreement. Ideological, political, social and economic factors are analysed alongside those of foreign policy developments. The documents cover the crisis years of 1938 and 1939.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4947 History and Historians in Twentieth-Century Britain

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This thematised Special Subject explores the historiographical currents and major texts that have formed the context within which British historians have worked in the twentieth-century. The study is not confined to formal treatises but includes writing about the nature of history and fictional representations of the past. In the case of a historiographical study, the primary sources (mandatory for a Special Subject) also include sources categorised as secondary for other purposes. They will constitute a "bank" of prescribed texts, a subset of which will be used in any one year.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4948 France and the World, 1940 - 1995

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module examines France's attempts to project its influence and safeguard its interests in world politics in an era in which it suffered considerable blows to its prestige through the defeat and division of World War 2, the end of its colonial Empire and the rise of the superpowers. Through study of primary sources, themes of change and continuity will be examined across France's attempts to adapt to a rapidly changing international situation while preserving its goals of independence and leadership. France's international policies and positions will also be compared to those of other European and world powers.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4949 Debating Indian Futures: From Empire to Republic, 1917-1950

Credits: 60 Semester: Whole Year
Availability: Available only to students in the Second Year of the Honours Programme.

Description: India was central to the British imperial system and represented the first seminal case in which a subject peoples raised and pressed the case for significant self-government. This module considers the nature of this challenge and the political and popular response it evoked in Britain in a series of constitutional reforms, beginning with the Montagu-Chelmsford Declaration of 1917, to the granting of Independence and Partition in 1947 and culminating in a study of the formative years of the newly independent India, 1947-1950. Throughout, the focus will be upon the process by which those reforms were arrived at and the competing perspectives on these problems. As such it will provide an in-depth analysis of British attitudes to 'the problem of empire' in the climactic years after the end of the First World War and the battle of ideas and interests which constituted the debate over India's - and by implication, the Empire's future.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4952 The Kennedy Years

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module will cover America in the 1960s, through the careers of John, Robert and Edward Kennedy, in the process demonstrating how the political landscape which brought John Kennedy to the White House in 1961 was destroyed by 1969.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4954 Martin Luther King and the Civil Rights Movement in America

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module will explore in detail the central protests and demonstrations of the American Civil Rights Movement. It will focus on the life of Martin Luther King Jr. and examine the nature of his leadership, the role of the church, the degree of his radicalism. Substantial use will be made of oral sources and the strengths and weaknesses of oral history will be examined.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4957 Britain and Iran in the Modern Era

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: This module will discuss and analyse the often intimate relationship between Iran and Britain in the modern period, focussing on the initial diplomatic contacts in the early 19th century when Britain sought an ally against Napoleon, to the apogee of British power and influence in Iran from the end of the 19th century until the nationalisation of the Anglo-Iranian Oil Company in 1951-53. The course will not only look at broader strategic aspects of the relationship, especially with growing British interests in India, but also analyse the growing economic relations between the two countries, as well as ideological and cultural developments, concluding with a discussion of the British conception of 'Persia'. English language documents will be used throughout the course.

Class Hour: To be arranged

Teaching: One 2 hour seminar

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4959 British Cinema History 1920-1960

Credits: 60 Semester: Whole Year
Availability: Available only to students in the second year of the Honours Programme.

Description: This module will examine the relationship between film and British society, from the 1920s to the 1960s. It explores the significance of film as a critical medium of cultural communication through which ideas, values, and understandings of contemporary society and of 'history' are expressed, mediated and shaped. We will ask how films construct the world they seek to represent. The films used will address critical issues and problems that have shaped Twentieth Century British society and culture: national identity, politics and political leadership, social class and mobility, gender roles, race and major historical events such as the Depression, World War II and the growth of the Welfare State.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

History – Honours 2009/10 – September 2009

MO4961 Mapping Modern Europe: Spatial Perspectives on the 19th and 20th Centuries

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.

Description: History is a matter of time - and space. While a certain preoccupation with time has been characteristic for large parts of modern European historiography, space has very often been a hidden dimension in history. Over the last years, however, there has been a growing interest in the spatial dimension of European history and a grown concern with the 'sense of place'. Concepts of place, space, boundary, territory and landscape have become central to some of the most exciting developments across the whole field of the humanities and social sciences. This module aims to elucidate these multifaceted concepts, and offers an insight in various aspects of modern European 'spatial history': e.g. geopolitics, (mental) maps and places of memory.

Class Hour: 10.00 am - 1.00 pm Wednesday.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

MO4962 France and its Empire in the 20th Century: Colonialism, Anticolonialism, Post-colonialism

Credits: 60 Semester: Whole Year

Availability: Available only to students in the second year of the Honours Programme.

Description: In 1918, the French colonial empire was at its zenith. Yet the next fifty years were characterized by imperial decline and conflict, as the certainties of the 'age of empire' were challenged. This module will examine the nature of French colonialism and challenges to imperial power, focusing mainly on the crucial period between 1918 and 1962. Questions that will be addressed include the role of ideology in French imperialism; the effects of imperialism on colonized societies; the ways in which imperial rule was challenged and undermined; the complex relationship between French republican ideals and imperialism; and the legacies of empire in the post-colonial era.

Class Hour: 10.00 am - 1.00 pm Wednesday.

Teaching: One 3 hour seminar.

Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

Scottish History (SC) Modules

SC3003 The Weaker Sex? Women and Scottish Society 1800-1970

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module examines, through the lives of ten prominent women, gender issues in nineteenth and twentieth century Scotland. Each of the lives illustrate the struggles that women faced to achieve equal rights and equal opportunities in Scottish society. The women chosen are from a wide spectrum of society, from weavers to duchesses, and include: Mary Slessor, missionary, Duchess of Atholl, politician, Sophia Jex-Blake, doctor, among others.

Class Hour: 11 am - 1.00 pm Thursday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%.

SC3021 Survival and Stability: the Foundations of the Stewart Dynasty, 1371-1460

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module examines the nature of late mediaeval Scottish kingship through an analysis of the reigns of the first four Stewart kings. The dramatic changes in the style of royal government, ranging from a shaky beginning in 1371 to the spectacular success of James II by 1455, are studied in depth and with reference to original source materials.

Class Hour: 3.00 – 5.00 pm Thursday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3022 Kingship & Tyranny: Scotland and the Age of Reform, 1513-1603

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module examines the changing nature of Scottish political culture in the sixteenth century, with particular emphasis on the impact of Renaissance ideas of citizenship, the Reformation's focus on a godly community, and the socio-economic transformation associated with the rise of the 'middling sort'. Particular attention is paid to literary and related sources which reflect the changing perceptions of the relationship between the crown and the community.

Class Hour: 11.00 am – 1.00 pm Friday

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3023 Culture and Society in Renaissance Scotland, 1450-1550

Credits: 30 Semester: 2

Availability: 2009-10

Description: The century between 1450 and 1550 was a true 'golden age' of Scottish culture, encompassing not only the literary output of the Makars - Henryson, Dunbar, Douglas and Lindsay - but also a rich variety of other cultural achievements in fields as diverse as philosophy, music and architecture. The purpose of this module is to explore the full range of Scottish cultural life in the Renaissance period in its social and political contexts and with reference to the wider world of European culture.

Class Hour: 11.00 am – 1.00 pm Friday

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3024 Age of Conquest: Edward I, Scotland and Wales (1239-1307)

Credits: 30 Semester: 1

Availability: 2009-10

Description: Edward I has long been known as the conqueror of Wales, the hammer of the Scots and as a second King Arthur who united the British Isles under his rule. Praised for his rule by English writers and, yet, a hate figure for many Scots and Welsh, Edward's reign was an era of major warfare and political change on the island of Britain. The module focuses on this pivotal period in the thirteenth and early fourteenth century in which ideas of royal sovereignty and national identity worked together to produce sustained conflicts. Detailed examination of the causes and course of Edward's wars with Llywelyn prince of Wales and his settlement of that land, and analysis of the English king's dealings with Scotland, culminating in his conquest of 1296 and the rebellion and warfare which followed, provide the core of this module.

Class Hour: 11.00 am - 1.00 pm Friday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

SC3025 The Castle in Medieval Scotland 1100-1550

Credits: 30 Semester: 1
Availability: Not available 2009-10

Description: Castles remain the most impressive physical reminders of Scotland's mediaeval past. The great royal fortresses of Edinburgh and Stirling provide symbols of Scotland's past nationhood; the ruined walls and towers of baronial castles demonstrate the power and pretensions of the great lords of the middle ages. As military strongholds, centres of government and lordship, and residences of royal and aristocratic households, these castles give access to the main themes of medieval Scottish politics and society. This module will study the castle in its context. The changing needs of military and domestic architecture in response to the needs of war and peace, the siting of castles and their use in wider structures of authority from Lothian and the marches to the Hebrides, and their role in warfare, as places of refuge and as bases for garrisons, will all be considered. Architectural and archaeological evidence will be combined with descriptions of the Scottish castle in chronicles and record sources to obtain a full understanding of the buildings and their functions.

Class Hour: 11.00 am – 1.00 pm Friday.

Teaching: One 2 hour seminar. One field trip.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3026 Normans, Natives and Norsemen: Scotland c. 1050 - 1250

Credits: 30 Semester: 2
Availability: Not available 2009-10

Description: This module explores the creation of the Scottish kingdom in the eleventh to twelfth centuries. The period sees the institutional and territorial unification of the mainland territories of the kingdom, a process which was a pre-requisite for the development of the durable identity which was to preserve the nation not simply through the Wars of Independence but also through subsequent periods of Union with England. The module will be structured thematically rather than chronologically looking at the cultural and political development of the kingdom. In the first part of the module the themes investigated will primarily be discrete areas of cultural and institutional development. In the second part we shall work through the different frontiers of the kingdom in turn (South, West, North and East).

Class Hour: 10.00 am - 12 noon Tuesday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3027 Pictavia to Albania: Scotland in the Viking Age

Credits: 30 Semester: 2
Availability: Not available 2009-10

Description: This module investigates the crisis that faced northern Britain under the impact of the Viking invasions. The module begins by setting the scene in the late eighth century when Northumbria and Pictavia were experiencing their cultural and artistic Golden Age and concludes with the reign of MacBeth when the kingdom of the Scots, called Alba, had begun to make an impact on the international scene. Themes explored will include the causes of the Viking raids, the collapse of Northumbria, the extirpation of the Picts, Norse settlement, the swansong of the Strathclyde Britons, the creation of the kingdom of Alba and its early relations with the emerging kingdom of the English.

Class Hour: Tuesday 10.00 am - 12.00 noon

Teaching: Two seminars.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3028 MacBeth and His World: Rulers and Rulership in Eleventh-Century North Britain

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: Taking the reign of the notorious Mac Bethad mac Finnlaíoch (MacBeth), 1040-1057, as its central point this module will examine the place of Scotland within the world of the mid-eleventh century. This period saw the end of the Viking Age, the expansion of the kingdom of Alba south of the Forth and the beginnings of the far-reaching Church reforms that were sweeping Western Christendom. The module will focus on a relatively short period of time and approach it from a range of angles via a range of materials.

Class Hour: 2.00 – 4.00 pm Tuesday

Teaching: One seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3029 Adomnán and his World: Scotland and Ireland in the Dark Ages

Credits: 30 Semester: 2

Availability: 2009-10

Description: Adomnán mac Ronáin was born in Donegal, in the north of Ireland, in 624 and went on to become the ninth abbot of Iona, in western Scotland, in 679; a post he held until his death in 704. As both author and subject of hagiography, promulgator of human rights legislation, international ambassador and agent of church reform he is rightly viewed as one of the leading figures of his generation. An examination of his career provides an ideal vehicle for examining the political, social and religious development of Ireland and northern Britain in the seventh century.

Class Hour: 9.00 - 11.00 am Thursday

Teaching: One seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3033 Constructing Identities: Scottish Historians and the Past, 1707-1832

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module explores the wider issues raised by the energetic re-writing of Scottish history between the Act of Union and the death of Sir Walter Scott. It will draw attention to the search for a new national identity through the better understanding of the past; the role of historical scholarship in making possible the broader cultural achievements of the eighteenth century; and the peculiar pre-occupations of Enlightenment historians, their purposes, their methods and their influence, in an age in which the Scots were among Europe's most popular and most innovative practitioners.

Class Hour: 2.00 - 4.00 pm Tuesday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3043 Scottish Social Problems 1800-1990

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module examines the reasons behind the persistence of major social problems in a society which has grown immeasurably in wealth and prosperity since 1800. Major topics to be examined include housing, poverty, sectarianism and the responses of government and society to all of these.

Class Hour: 11.00 am - 1.00 pm Tuesday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

History – Honours 2009/10 – September 2009

SC3044 Scotland and Britain 1603-1707

Credits: 30 Semester: 1
Availability: Not available 2009-10

Description: This module explores the wider issues raised by the unification of Scotland, England and Ireland under one monarch in 1603. Beginning with a review of sixteenth-century concepts of 'Britain', the module proceeds to explore the profound political realities that resulted from the Union of the Crowns. The module will examine the development of proto-British institutions in the Jacobean age through to their decline in the Carolinian era that followed. The conflicts that subsequently engulfed the Stuart kingdoms left deep divisions within Scottish society leading to the Cromwellian conquest of the country. The module assesses the impact of the Restoration regime on Scottish society and the military and ideological struggles that culminated in the Treaty of Union of 1707.

Class Hour: 3.00 pm – 5.00 pm Monday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3045 Scotland and the Wider World

Credits: 30 Semester: 1
Availability: 2009-10

Description: The history of Scotland at St Andrews is taught with an eye to the European context that has shaped the indigenous culture and institutions of the country. The period from 1600 to 1750 witnessed large-scale migration from Scotland to a variety of destinations including Scandinavia, Poland-Lithuania and the Dutch Republic. The motivation for these movements can only be understood if viewed through both Scottish and Continental lenses. As such, this module profiles the European states with which Scotland developed enhanced relations be they political, commercial, official or unofficial. It concludes with consideration of the changing axis of Scottish migration to Asia and the Transatlantic world.

Class Hour: 3.00 pm – 5.00 pm Monday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3048 Pirates and Privateers in Early Modern Scottish History

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module explores the engagement of Scots in combating and participating in piratical and privateering activities in the Early Modern Period. The module follows the development of armed maritime forces as the nation pondered the abject failure of the Scottish regular army and the futility of employing capital ships such as the Great Michael. The resulting armed merchantmen were employed in times of war to great effect, for example doubling the size of the Scottish merchant fleet through the capture of Dutch ships in the second Anglo-Dutch war alone. When not employed by the government many headed out of European waters to put their privateering skills to use for personal gain resulting in some of history's most notorious pirates.

Class Hour: 3.00– 5.00 pm Monday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC3049 Crime, Protest and Policing in Scotland, 1780 - 1914

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module charts the development of popular protest, such as the Scottish Insurrection of 1820, and low level crime from 1780-1914 and analyses the ways in which these activities have been handled by the authorities. It is also concerned with the emergence of police forces in rural and urban Scotland and the criminalization of social life, and questions the historical orthodoxy that the formation of these institutions after 1850 created the basis for a transition to a more orderly and peaceful society.

Class Hour: 11.00 am - 1.00 pm Thursday.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

SC4107 Conflict and Cohabitation: Northern Britain c.550 - 750

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10, Available only to students in the second year of the Honours Programme
Description: In the decades around AD700 a number of northern writers, notably Adomnán of Iona (†704) and Bede of Monkwearmouth-Jarrow (†735), looked back on the history of their region. Their historical horizons, for different reasons, lay in the middle of the sixth century. This module looks at the way their world was created both in terms of the rise of the Christian Church as a force to be reckoned with and in the establishment of powerful political hegemonies. Central to the module will be an attempt to grasp the interaction between the different peoples, Britons, Picts, Angles and Gaels.
Class Hour: 9.30 am - 12.30 pm Wednesday
Teaching: One seminar.
Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

SC4108 History and National Identity in Pre-Union Britain, 1100-1600

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available only to students in the Second Year of the Honours Programme.
Description: The purpose of this module is to examine forms of national consciousness and identity in Britain in the centuries before the Union of Crowns. Focussing in particular on the role of historians in defining cultural identity, it explores what it meant to be Scottish or English in the late mediaeval and early modern periods, and how difficult it was to persuade people to think of themselves as British.
Class Hour: 9.30 am - 12.30 pm Wednesday.
Teaching: One 3 hour seminar.
Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

SC4109 Work and Politics in Modern Scotland

Credits: 60 Semester: Whole Year
Availability: 2009-10 only to students in the Second Year of the Honours Programme.
Description: The module has two specific purposes: firstly, to provide an account of the Scottish Labour Movement from the early nineteenth century, and the ways in which economic and social change have conditioned its development; and, secondly, to relate these developments to wider debates within the social sciences regarding the relationship between work and politics.
Class Hour: 9.30 am - 12.30 pm Wednesday.
Teaching: One 3 hour seminar.
Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

SC4110 The Bruce Cause: The Making of Late Mediaeval Scotland

Credits: 60 Semester: Whole Year
Availability: Not available 2009-10 Available to students in the Second Year of the Honours Programme.
Description: From the fourteenth century onwards Robert Bruce has been identified as the champion of the Scottish People against English domination. The Bruce cause, the survival and defence of Robert's dynasty as kings of Scots, has been equated with the National cause, the liberties and independence of the realm and community of Scotland. However, this association of dynasty and nation was neither automatic nor immediate. It was only with the state-sponsored composition of Barbour's epic poem *The Bruce* in the 1370s that Bruce's historical reputation and political legacy were secured. This module examines this reputation and legacy by examining in depth the rise and survival of the Bruce dynasty between 1306 and 1371. Themes to be considered will be the presentation of rights and duties of both king and people in contemporary sources, the emergence of a nobility dominated by men bound to the Bruce cause, and the character of relations with England.
Class Hour: 9.30 am - 12.30 pm Wednesday.
Teaching: One 3 hour meeting.
Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

History – Honours 2009/10 – September 2009

SC4111 The Scottish Enlightenment

Credits: 60 Semester: Whole Year
Availability: 2009-10 Available only to students in the second year of the Honours Programme
Description: This module explores the Scottish Enlightenment, an extraordinary phase of cultural and intellectual achievement associated with names like David Hume, Adam Smith, William Robertson, Allan Ramsay, Joseph Black and Sir Walter Scott. The class will work with eighteenth-century published works and other original sources in seeking to interpret the philosophical, historical, scientific and literary activities of the period.
Class Hour: 9.30 am - 12.30 pm Wednesday.
Teaching: One 3 hour meeting.
Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

SC4112 Britain and the Thirty Years' War, 1618-1648

Credits: 60 Semester: Whole Year
Availability: 2009-10 Available only to students in the second year of the Honours Programme
Description: This module explores the wider issues raised by the entanglement of Scotland in the Thirty Years' War, 1618-1648, covering both the diplomatic and military aspects of the conflict. The module illuminates the political processes that led to the participation of as many as 50,000 Scottish troops in the war that took place at the heart of the Holy Roman Empire initially through loyalty to the Scottish princess Elizabeth Stuart, wife of Frederick V of the Palatinate. The module covers the official alliances of the Stuart regime, the independent diplomacy of the Scottish parliament and the actions of numerous influential Scots involved with the combatant nations.
Class Hour: 9.30 am - 12.30 pm Wednesday.
Teaching: One 3 hour meeting.
Assessment: Continuous Assessment = 30%, Two 3 Hour Examinations = 70%

SC4114 The Marian Moment: Politics and Ideology in Mary Stewart's Britain 1542-1587

Credits: 60 Semester: Whole Year
Availability: 2009-10 Available only to students in the second year of the Honours Programme
Description: The life of Mary Stewart (1542-1587) is among the best known and most highly mythologized of all British monarchs. Queen of Scots more or less from birth, she also possessed a strong claim to the throne of England and it was as much her dynastic rights as her personal charms that led to the series of marital adventures that have so preoccupied her biographers. Yet while her career needs to be firmly situated in the context of sixteenth-century dynastic politics and diplomacy, it is important also to recognize that her life and reign generated a range of ideological debates that proved critical in crystallizing and developing early modern thinking on such issues as the role of women in government, the rights of the people to resist tyranny, religious confessionalization, and the meaning of Britain. Using a range of contemporary record and literary sources, this module uses Mary's life as a focal point for exploring these ideological issues as they developed in England as well as Scotland in the years from the 1540s to the 1580s.
Class Hour: 9.30 am – 12.30pm Wednesday.
Teaching: One 3 hour meeting.
Assessment: Continuous Assessment = 40%, Two 3 Hour Examinations = 60%

School of International Relations

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours): International Relations	<p>Single Honours International Relations Degree:</p> <p>Level 1: 40 credits consisting of IR1005 and IR1006</p> <p>Level 2: 40 credits consisting of passes at 11 or better in IR2003 and IR2004.</p> <p>Level 3: 120 credits from IR3004 - IR3202</p> <p>Level 4: IR4099 and 90 credits from IR4501 - IR4590 30 3000-level or 4000-level credits may be taken outwith International Relations, with the permission of the Director of Teaching.</p>
(M.A. Honours): International Relations and Arabic, Art History, Biblical Studies, Classical Studies, Economics, Film Studies, French[^], Geography, German[^], Italian[^], Management, Mathematics, Mediaeval History[~], Middle East Studies, Modern History, Philosophy, Psychology, Russian[^], Scottish History, Social Anthropology, Spanish[^], Theological Studies.	<p>International Relations element of Joint Honours Degrees:</p> <p>Level 1: 40 credits consisting of IR1005 and IR1006</p> <p>Level 2: 40 credits consisting of passes at 11 or better in IR2003 and IR2004.</p> <p>Level 3: 60 credits from IR3004 - IR3202</p> <p>Level 4: 60 credits from IR4099 - IR4590</p>
<p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>[~]Timetable clash exists therefore this combination is subject to arrangement with both departments.</p>	

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Modern Languages with International Relations French-German with International Relations[^] French-Italian with International Relations[^] French-Russian with International Relations[^] French-Spanish with International Relations[^] German-Italian with International Relations[^] German-Russian with International Relations[^] German-Spanish with International Relations[^] Italian-Russian with International Relations[^] Italian-Spanish with International Relations[^] Russian-Spanish with International Relations[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>International Relations element of Minor Degree Programmes: Level 1: 40 credits consisting of IR1005 and IR1006</p> <p>Level 2: 40 credits consisting of passes at 11 or better in IR2003 and IR2004</p> <p>Level 3: The Honours programme requires at least 90 credits in IR. At least 30 must be taken from IR3004 - IR3202</p> <p>Level 4: At least 30 credits must be taken from IR4099 - IR4590</p>

InterDisciplinary (ID) Modules

ID4801 Human Rights, Poverty and Security

Credits: 30 Semester: Either

Availability: 2011-12. Available to International Relations and Philosophy students only

Description: There has recently been a move within political philosophy and international political theory to re-conceive severe poverty as a violation of human rights (with a consequent emphasis on responsibility, accountability, and abolition). This module will examine the new challenges to traditional understandings of human rights, and their implications for international social and political institutions. To explore how this debate manifests itself in the public culture and discourse, we will engage many textual sources, including promotional materials from human rights campaigns and documents from the United Nations and other international organisations, as well as other media including regular film screenings.

Class Hour: To be arranged.

Teaching: Two hour lecture and seminar.

Assessment: Continuous Assessment = 100%

International Relations (IR) Modules

IR3004 International Political Economy

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will begin with an outline of the three major traditions of international political economy: liberalism, marxism and nationalism, providing an explanation of their main ideas, as well as a critique. After a brief examination of some more contemporary theories, the module will go on to examine the politics of international trade, including an overview of the GATT system, and some topical trade issues. The module will examine the importance of multinational corporations in the world trading system, and will then go on to look at relations between North and South. The module will finish with the importance of regional economic groupings, some thoughts on the future international economic regime.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3006 International Regimes and Organisations

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module covers: regime theory and international relations; the rise of the international organisation; international conference diplomacy and rise of multi-lateralism; the UN system and its growth after 1945; complex cases of multi-lateral diplomacy; politicization and financial issues in the UN system, the post-cold War reform of the UN.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3008 International Terrorism

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module examines the concept of terrorism; problems of definition; nature and characteristics and relationships to other forms of violence; typology; political objectives, strategies and motivations; underlying causes of rise and decline of terrorism; dilemmas of democratic and international response; aviation terrorism; terrorism and diplomacy; the problem of state sponsorship and support; problems of international co-operation, including the use of diplomacy, international law and organisation, and police and intelligence measures.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3013 Modern Ideologies

Credits: 30 Semester: 1

Availability: 2009-10

Description: The module aims at analysing modern ideologies and at establishing their relevance for theories of international relations. It examines the ideological assumptions on human nature and on the relationship between individual and society which lie behind different theories of international relations. The module deals with three related problems: a) the analysis of the concept of 'ideology'; b) the assessment of the contributions to the understanding of politics offered by Liberalism, Conservatism, Marxism, Fascism, Feminism and Ecologism; c) the investigation of the connections between classical ideologies and theories of international relations.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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IR3015 Religion, Politics and Democracy

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module explores the relationship between religion and politics, focusing in particular on issues of religion, democracy and democratization. To that end it will start by introducing social scientific theories relating to religion and society and, using particular cases, will raise the question of where religion belongs in increasingly secularized political orders. These cases will vary from year to year, but are likely to focus on issues relating to church and state in Europe, the impact of the Christian Right in the USA, the contribution of Catholicism to democratization in Latin America and eastern Europe, the relationship of political Islam to democracy, the rise of 'electoral Islam' in countries such as Turkey, the special challenges posed to established democracies by growing religious pluralism, and the impact of Hindu nationalism on the nature of Indian democracy.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3021 Case Studies in Conflict Analysis

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module provides students with an opportunity to work on case studies in conflict analysis, in which they develop the skills required to analyse the roots, dynamics, key actors and issues-areas in specific conflicts. They will be introduced to the theoretical frameworks contained within conflict analysis about definitions of conflict, perceptions, historical interpretations, political, social, cultural and economic dynamics, initiation and escalation, and then will be asked to choose and investigate a particular case study according to the different analytical frameworks associated with conflict analysis. Problems associated with researching conflict and violence will also be tackled. This will provide the basis for each student to engage in a detailed case study, chosen from a specific list of key cases.

Class Hour: To be arranged.

Teaching: Lectures, and occasional seminars and tutorials

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3023 US Foreign Policy: The Dilemmas of Empire

Credits: 30 Semester: 1
Availability: 2009-10

Description: The module will be descriptive, explanatory, and evaluative. The first week of class will be devoted to a brief survey of theories of foreign policy, focusing on a range of positivist and post-positivist debates. From that point onwards, theoretical debates will be subsumed into the various historical, constitutional and structural descriptions of how US foreign policy is formulated and executed. Throughout the module we will also explore various normative critiques of the conduct of US foreign policy.

Class Hour: To be arranged.

Teaching: One lecture, one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3024 The Politics of Africa

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module provides an introduction to the study of African politics. Contemporary Africa is complex and varied: the continent consists of around fifty states with very different histories, colonial experiences, economies, values, and social structures. The module reviews the social and historical context of contemporary political life, looking at the changes the continent has undergone since independence. It will examine and seek to understand the colonial legacy, the nature of the post-colonial state, society and its institutions, the nation-building projects and policies of these states and the movement towards democratisation and the continuation of authoritarian rule through "low intensity democracy".

Class Hour: To be arranged.

Teaching: One lecture, one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3025 International Security

Credits: 30 Semester: 1

Availability: not available 2009-10

Description: This module provides a general overview of international security affairs using a variety of conceptual perspectives, ranging from orthodox realist and liberal approaches to more recent critical theories. It also covers traditional issues of security studies such as the offence-defence balance, alliance formation, and collective security, as well as the 'new security agenda' involving societal security, environment, public health, and related problems.

Class Hour: To be arranged.

Teaching: One lecture, one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3026 Diplomacy and Conflict Intervention

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will explore the changing nature of diplomacy as it relates to conflict intervention, including the differences between the old and the new diplomacy and the range of governmental and non-governmental actors in conflict intervention, from encouraging and facilitating dialogue to economic sanctions to monitoring human rights, to peacekeeping and peace-enforcement, to forums for addressing past injustice. These forms of intervention will be critically analysed against the background of globalisation.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3027 American New World Orders in the Twentieth Century

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will examine the historical roots of the phenomenon widely known as the 'new world order' as developed, mainly, but not exclusively, by a series of United States Presidents since 1918. It will also critically examine the policy discussions that took place to re-define the nature of international order during the First and Second World Wars, and since 1991, up to and including the neo-conservative thinkers of the recent period. It will further look at the main concepts that emerged from such thinking, and notably self-determination, the international organization and the further emergence of global capitalism.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3028 The Politics of China

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will examine the politics of post-1949 China, first examining post-Communist Revolution political history and the development of the Chinese Communist Party. The module will then describe the structure of the Chinese party-state, leadership issues from Mao Zedong to Hu Jintao, modern issues of governance, state-society relations, and political relations between central actors and the provinces. Current socio-political issues, including economic development and modernization, and the "Rise of China" phenomenon, as well as current social issues within the PRCE, will also be surveyed.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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IR3029 The Logic of Irregular Warfare

Credits: 30 Semester: 2
Availability: 2009-10

Description: The purpose of this module is to examine the dynamics of violence in three distinct forms of irregular armed conflict: civil wars, insurgencies and guerilla wars. Its starting point is that the twentieth century has witnessed a shift from traditional forms of warfare to these three distinct forms of irregular war and that this shift demands a reconsideration of the way that warfare is studied. Using theoretical approaches to the subject, as well as historical case studies, it will identify the dynamics of irregular warfare in the twentieth century, trace the diverse motivations and strategies implicit in different kinds of irregular warfare, and discuss the implications of this shift for those responsible for countering irregular warfare.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3030 Human Rights in Theory and Practice

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module introduces students to the complex debates concerning human rights, and in particular to the interrelationship between human rights in theory and in practice. While human rights is a powerful idea in our time, it is also the focus of numerous controversies. The module explores the philosophical foundations of universal human rights; the political, legal and historical development of modern human rights norms; issues and trends that have arisen since the advent of the United Nations human rights system; and the impact of human rights on the rules of international politics.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3031 Globalisation and the War on Terrorism

Credits: 30 Semester: 1
Availability: not available 2009-10

Description: This inter-disciplinary module introduces students to various conceptual frameworks for thinking about the war on terror in an age of globalization, along with a range of empirical case studies designed to illustrate these theoretical debates. A selection of readings is provided, ranging from international relations to other contributions from sociology, criminology, philosophy, history and political science. Theoretical issues examined include globalization as a new security paradigm; the notion of a globalised War Risk society; the clash of civilisations vs. the continued relevance of realism; and re-defining what 'war' means in the war on terror. Case studies comprise NATO's transformation; war on Iraq; and emerging non-military attempts at global governance in controlling terrorism.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3032 Globalisation and its Disjunctures

Credits: 30 Semester: 1
Availability: 2009-10

Description: Debates concerning globalisation have intensified since 9/11, the US-led intervention in Afghanistan and Iraq, the emergence of various Islamist groups that proclaim *jihād*, the proliferating security concerns around the world (particularly following the Madrid and London bombings), debates concerning the environment, and the rise of the *new* economic powers of China and India. Globalisation is a complex phenomenon that is defined in so many different ways that it is difficult to know what it means and to predict its potential utility. The literature on globalisation is diverse in terms of the specific approaches adopted and conclusions reached. There is no single theory of globalisation. Rather globalisation involves complex dialectical processes of homogenisation and differentiation, integration and fragmentation, and universalisation and particularisation. The purpose of this module is to critically explore both the theory and practice of globalisation and its disjunctures in the contemporary world.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3033 Post-Conflict Transition in Sub-Saharan Africa

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module provides a detailed introduction to the theory and practice of conflict management in sub-Saharan Africa. Focusing principally on United Nations peace operations after the Cold War, the module will explain the evolution of the UN's post-conflict role in Africa and analyse issues of sovereignty, intervention, security, and development. The post-conflict transition of several states will be examined, including Namibia, Mozambique, Rwanda, Somalia, Sierra Leone, Liberia, Sudan, and the Greater Great Lakes region. The module will also articulate the impact of regional security dynamics on post-conflict transition and discuss the role of regional organizations in Africa. Finally, critical approaches to peacekeeping and peace-building will be evaluated.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3034 The Political Theory of War and Peace

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module will examine the relationship between war, peace and politics in five key thinkers from the tradition of European political thought: Thucydides, Machiavelli, Erasmus, Clausewitz and Tolstoy. We will look at the way they understood the possibility of peace and the appeal (or repugnance) of war and how both should be understood in a political framework.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3035 Peace Processes and Violence

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module will examine issues of violence that confront peacemaking processes in contemporary civil wars. It begins by examining the concepts of peace and peace processes, before considering the role of violence, and violent actors, in facilitating or thwarting a negotiated agreement between combatants. Practical and ethical issues abound: is there a right time to talk to 'terrorists'; can we overcome a deeply embedded culture of violence; are all spoilers necessarily bad? The module will be comparative and draw on contemporary examples.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

International Relations – Honours 2009/10 – September 2009

IR3036 Public International Law & International Legal Theory

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module aims to provide students with a solid grounding in the theory and practice of international law. An understanding of key legal concepts and doctrines will be gained by a general overview of international legal institutions and some of the main bodies of international law, including human rights law, international dispute resolution, international humanitarian law and international criminal law. Students will be expected to engage with international legal history, critical international legal theory and international relations approaches to the study of law at the international level.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3104 The International Relations of Post-communist Central and Eastern Europe

Credits: 30 Semester: 1
Availability: 2009-10

Description: Subjects covered include: Mechanisms of control in Soviet-East European Relations; the nature of the 1989 revolutions; changes to the international system; nationalism and ethnic conflict; the Yugoslav wars; Russia's place in Europe; regional cooperation; political-economic change in this international context; western approaches to Eastern Europe; and the new European security architecture.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3111 Asian Security

Credits: 30 Semester: 2
Availability: 2009-10

Description: Establishing a security framework for Asia that will limit the risks of major war is one of the great challenges in contemporary international politics. This module will examine the evolution of security relations in Asia with special attention being given to South and East Asia and to the period since the end of the Cold War. It will consider the security cultures and policies of China, India and Japan, their relations with one another and with the United States, and the security 'architecture' that might emerge in Asia. It will also examine unresolved disputes over Taiwan and Kashmir, problems on the Korean peninsula, and the role of multilateral regimes and other international institutions.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR3113 Gender and Generation

Credits: 30 Semester: 1

Description: The incorporation of issues of gender into the prevailing international relations discourse changes the way in which international relations is thought about, and theorised. This module will examine the meaning of such change, and will also argue that, in a similar way, incorporating children into the established discourse may mean that traditional themes and constructs – such as states, sovereignty, political identity, agency, power, representation, etc. – are transformed. This module includes an examination of such issues as the use of child soldiers; women and warfare; children's economic role; and political theory as it relates to the family.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4099 Honours Dissertation in International Relations

Credits: 30 Semester: 1
Availability: Available only to students in the second year of the Honours Programme.
Anti-requisite: Any other Dissertation module
Description: The dissertation will be approximately 10,000 words. Topics must be capable of being supervised by the established staff and each student will (a) submit a dissertation outline to the School, (b) be assigned a supervisor, who will be available to discuss issues related to the dissertation, (c) be required to attend one general lecture on research and at least two 1 hour supervisory meetings.
Teaching: To be arranged.
Assessment: Dissertation = 100%

IR4501 International Politics of Nuclear Weapons

Credits: 30 Semester: 1
Availability: 2009-10
Description: Are nuclear weapons dying, or are they here to stay? This module will begin by examining the role of nuclear weapons in the Cold War, and the history of nuclear arms control. It will then consider early 1990s initiatives to end the nuclear arms race, strengthen the non-proliferation regime, and achieve disarmament. Why have these initiatives run into difficulty? Topics covered will include the lessons from; nuclear weapons in Asian politics; and shifts in US ordering strategies before and after 9/11. The module will also consider how recent nuclear developments affect, and are being affected by, happenings in other fields of military technology and arms control.
Class Hour: To be arranged.
Teaching: One lecture, one seminar
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4502 Conflict Management, Settlement and Resolution

Credits: 30 Semester: 1
Availability: 2009-10
Description: Understanding how and why conflict emerges, and how it may be addressed are crucial issues in the international system. Conflict between states and the emergence of conflict derived from political, social, structural, historical, and ethnic roots have driven the development of apparatus to address conflict, arranging from diplomatic exchanges, the use of military force, peacekeeping, negotiation, mediation and conflict resolution. This module is divided into two main areas, the first discusses various approaches used to analyse conflict, from the point of view of states, individuals and groups, regional and international organizations, investigating dominant issues of conflict, including state-interests, territory, sovereignty, development, resources, identity, culture, ethnicity, and representation. The second part of the module then examines the various approaches that have emerged for addressing conflict. Topical case studies will provide an empirical focus.
Class Hour: To be arranged.
Teaching: One lecture and one tutorial.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4504 Language of Politics

Credits: 30 Semester: 2
Availability: 2009-10
Description: This module examines key political concepts for students of national and international politics. In particular, the module puts under scrutiny contrasting definitions of 'human nature'; it analyses the presuppositions of competing theories of the function of 'government'; it discusses the different meaning that different theorists have given to concepts such as 'state', 'nation', 'sovereignty', 'power', 'authority', 'legitimacy', 'rights', 'obligation', 'law' and 'punishment'. The analytical approach is combined with the attempt to put definitions in the historical and ideological context from which they emerged.
Class Hour: To be arranged.
Teaching: One lecture, one seminar
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

International Relations – Honours 2009/10 – September 2009

IR4507 International Relations of the Middle East

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module examines Middle East international relations, with a special concern for the following topics: 1) the special character of the Middle East state system, including the exceptional impact of the international system on the region and the special role of identity and religion in regional politics; 2) the determinants of the foreign policies of Middle East states, including the impact of variations in state structures (between monarchies, radical republics and semi-democracies) on foreign policy behaviour; and 3) analysis of regional conflict and war and of order-building experiments.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4509 World Order in the History of Political Thought

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module investigates conceptions and practices of world order as they have evolved in the history of political thought. It offers an interpretation of some of the leading constellations of practices and conceptions, traces their origins and overlapping histories and suggests what the implications of this complex narrative might be for contemporary world politics. It does this by using a mixture of philosophical and other texts, historical events and secondary literature and commentaries. While the focus is on the contrasting conceptions of world order available in the modern world (understood as being between 1500 and 2000), some attention will also be given to pre-modern conceptions and practices.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4510 Central Asia in Global Politics

Credits: 30 Semester: 2
Availability: 2009-10

Description: Dramatically and unexpectedly, Central Asia was thrust to independence in 1991. Of all the Soviet republics, the five of Central Asia – Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan – had been the largest net recipients of Soviet aid, had benefited most economically from the Soviet Union and had thus been the most reluctant to break from the Soviet empire. Once the path of independence was followed, each of these five states faced considerable ethnic, state, economic, social and foreign policy challenges. This module aims to analyse these nation- and state-building agendas, seeking to address critically some of the now widely held assumptions about this post-Soviet area. Moreover, located in one of the world's most strategic zones, between Russia, China and a troubled Middle East, Central Asia relies on its substantial human and natural resources in the renegotiation of its geopolitical status.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4514 Global Public Policy

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module examines the formulation of multilateral agreements to manage global policy problems in a variety of issue-areas such as environment, new technologies, and sustainable development. It will use a variety of IR and related social theories such as functionalism, regime theory and the common-heritage of mankind, to explain problems in constructing binding international agreements. Extended case studies may include climate change, the law of the sea and the 'digital divide'.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4516 The International Relations of Sub-Saharan Africa

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module examines Sub-Saharan Africa's relations with and position in the global political economy. The module will aim to help understand the historical roots and contemporary impulses that help shape Africa's international relations. The module explores how Africa's nation-states and peoples interact with multilateral development banks, international institutions, aid organisations and other actors (including both "normal" external states and clandestine networks of accumulation). We will consider Africa's debt and its impact upon the continent's international relations, acknowledging that it is unsustainable but asking if total debt write-off is feasible or desirable. Why Africa's share in world trade is declining and the impact this has on the continent will also be discussed as will the role of trade restrictions and the WTO in shaping Africa's international relations. We will ask what is the logic of regional integration and can it work in Africa, whilst examining the stated goals of political unity and economic progress through the African Union. Is this just rhetoric or is there now hope for solid achievements on both political and economic fronts? We finish with an evaluation with the latest plan to put Africa on the global map: the New Partnership for Africa's Development (NEPAD).

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4518 Ethics and the Use of Force

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will explore the use of military force from a normative perspective. The overall thesis of the course is that norms can both enable and restrain the use of force. It will introduce students to moral, legal, and sociological methods of studying the norms that influence the use of military force. Substantive issue areas include: aerial warfare, weapons of mass destruction; humanitarian intervention; terrorism and counter terrorism; and preemptive and preventive war.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4520 Political Islam and International Relations

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module examines the causes, evolution and diffusion of political Islam in the core regions of the Muslim world and beyond in the modern period. It aims to describe the key features of this phenomenon, its influence on national and regional politics as well as on international relations. It describes the specificity of political Islam as a religious-based ideology and how it informs the rise of pro-Islamic movements across the Muslim world. It focuses on the relationship between Islamic movements and state, and between Islamic movements and civil society within the context of political liberalism and pluralism. The liberal and scriptural interpretations that dominate contemporary debates will be examined in relation to the local, national, regional and global context of contemporary international politics. Of particular relevance are the issues of the compatibility of politics and democracy, of political Islam and state power, of political Islam and liberal-democracy, and of the Western representation of political Islam as a security threat.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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IR4521 Representations of International Relations

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module examines the different ways in which we gain our knowledge regarding international relations. In particular, it uses examinations of a variety of different genres to understand why international relations, and the actors that populate it, are constructed in the way that they are. Different genres examined include: art, literature and children's literature, photography, poetry, satire, film, music and dance. The module asks what such representations can add to existing discourses surrounding international relations. In doing so, the module provides a critical analysis of the nature of the international relations discipline.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4522 Critical Approaches to International Security

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will analyse the various challenges to the concept of international security since the end of the Cold War, facilitate critical thinking about the changing meaning of security as it relates to different modes of theoretical analysis, and critically analyse the re-emergence of an emphasis on security as the threat and use of force since 11 September 2001.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4523 The Aftermath of Wars, Liberal Dilemmas

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will examine the aftermath of wars since about 1900 and ask what options have been open to policy makers in smoothing the transition to peace. To do so it will look at a series of such policy options in both historical depth and current reality. Most of these policy options start with an 'r': restitution, reparation, reconciliation, reconstruction, retribution etc. This module is organized around those 'r's. Each of these policy options has in itself a 'history' that is here explicitly linked to liberal thinking about war and hence to liberal views about how they should be ended.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4526 Terrorism, Radicalism and Extremism

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module introduces the student to a series of advanced theoretical, conceptual, methodological and policy-relevant issues in the study of the radicalization process and its relationship to terrorism. Through a research-led lecture series, informed by contemporary research on terrorism conducted by researchers at the University of St Andrews, students will be introduced to multi-disciplinary frameworks in understanding such issues as the utility of root cause explanations of terrorism, involvement in terrorism, counterterrorism, and conceptual and theoretical frameworks in understanding the process of radicalization to terrorism.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4527 International Relations of the European Union

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module examines the European Union (EU) from a variety of perspectives derived from major theories/concepts of international relations and comparative politics. It considers the EU as a key reference point in the foreign/security/defence policies of EU member states, as a major centre of gravity in Europe's regional neighbourhood, and as an important global actor. The module also considers the EU's relations with competing actors, particularly the U.S., NATO, Russia and China, as well as its role as a model for other experiments in regional integration.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4528 Foreign Policy of Modern China

Credits: 30 Semester: 1
Availability: 2009-10

Description: This module will provide an introduction to the major foreign policy issues and challenges facing the People's Republic of China in the post-cold war world. The primary focus will be on Beijing's evolving opening to the international system since 1949, from Maoist to post-Maoist and post-Dengist global linkages and cooperation. The module will also examine domestic actors in China's foreign policymaking, including the CCP and the People's Liberation Army, and the effects of China's economic development and reforms. Specific regional case studies will be discussed, including changing Sino-American relations and China's relations with the Asia-Pacific region.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4530 Genocide

Credits: 30 Semester: 2
Availability: 2009-10

Description: This module provides students with a conceptual and historical overview of genocide from a broad interdisciplinary perspective. Drawing upon contributions from political science, international relations, history, philosophy, sociology, psychology and literature, the module examines a range of empirical case studies along with some of the historical and philosophical debates they have sparked. Topics to be addressed include definitions of genocide; the evolving international law of genocide; themes of memory, responsibility and denial; and mechanisms of justice and reconciliation.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4531 The Return of Great Power Politics

Credits: 30 Semester: 2
Availability: 2009-10

Description: The aim of this inter-disciplinary module is to introduce students to conceptual frameworks for thinking about recent trends indicating the probable return of Great Power politics in the 21st century. It challenges conventional wisdom and assumptions that the international system and security is now dominated by globalization and the war on terrorism. Various theoretical debates on the re-emergence of great power competition are examined such as 'offensive neo-realism', polarity theory and the challenges pose by globalization theories and their advocates. Issues assessed include the continued relevance of 'old' security concepts characterizing great power politics, like the balance of power, geo-political competition, arms races, and security dilemmas.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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IR4532 The Cultural Politics of Human Rights

Credits: 30 Semester: 2

Availability: 2009-10

Description: There are more people than ever before who believe strongly in the necessity of the inclusion of human rights considerations when thinking about actions at every level of societal interaction; personal, local, national and international. The use of the concept is, however, frequently misused and the outcome of rights campaigns is often far from the original intention. In exploring these complex issues the module is divided into two parts. In PART I the long-standing and polarizing debate between liberal and Marxian theories regarding the role of the concept of human rights in society will be examined. Many theorists are now attempting to go beyond this divide to think through the potential for the concept in the process of social transformation. The social constructionist and neo-Gramscian approaches to the conceptualisation of human rights will be introduced. Drawing on this theoretical discussion a series of contemporary issues will be explored in PART II and the focus will be on suitability of the concept in any programme of social transformation by considering the role - nationally and internationally - of the legal system, economic relations, government and non-government organizations.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4533 The Arab-Israeli Conflict

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module is an essential primer for all students wishing to explore the complexities of the Arab-Israeli conflict from its origins to its recent evolution in the 'post' colonial era. Students will gain significant knowledge about the local, regional and international dimensions of the conflict with an emphasis on historical and legal analyses. A critical appreciation of intellectual debates will assist students in navigating their way through the themes of state formation, secular and religious ideologies, identity politics, human rights discourses and the role of the media in the construction of the conflict. Students should end the semester with a sound knowledge-base about the region's most enduring and intractable conflict.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

IR4534 Terrorist Finance

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module is an overview of how terrorists access and use economic value, as well as of the various approaches that a government and the private sector employ to understand and confront these activities. Students will gain knowledge about the empirical and conceptual realities of terrorist financing, and will learn how to separate 'fact from fiction' regarding this high-profile yet poorly understood topic. Topics to be addressed include the supply chain of terrorist groups, motives and dynamics of financial support for terrorism, the global AML/CFT regime, and the analytic approaches used by governments and the financial industry. Recommended for anyone interested in terrorism, political economy, or the role of non-state actors in the current global system.

Class Hour: To be arranged.

Teaching: One lecture and one tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

School of Management

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a BSc or MA degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours or B.Sc. Honours): Management</p>	<p>Single Honours Management Degree:</p> <p>Level 1: 40 credits consisting of Passes in MN1001 and MN1002</p> <p>Level 2: 40 credits consisting of Passes in MN2001, MN2002 with an average of 11 or better.</p> <p>Level 3: at least 110 credits including MN3102, MN3201 and MN3202, and 50 credits from MN3101 - MN4267</p> <p>Level 4: at least 100 credits including MN4203 and 80 credits from MN4204 - MN4267</p> <p>Other information: With the approval of the Honours Adviser, a student may replace up to a maximum of 30 credits of MN modules with module choices outwith the School (dip-across). Note that this includes ID modules.</p>
<p>(M.A. Honours): Management and Arabic, Art History, Classics, Economics, English, Environmental Geoscience, French[^], Geography[~], German[^], International Relations, Italian[^], Middle East Studies, Modern History, Philosophy, Psychology, Russian^{^~}, Spanish[^].</p> <p>(B.Sc. Honours): Management and Computer Science, Economics, Environmental Geoscience, Geography[~], Geoscience, Internet Computer Science.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees' [~]Timetable clash exists therefore this combination is subject to arrangement with both departments.</p>	<p>Management element of Joint Honours Degrees:</p> <p>Level 1: 40 credits consisting of passes in MN1001 and MN1002</p> <p>Level 2: 40 credits consisting of passes in MN2001, MN2002 with an average of 11 or better.</p> <p>Level 3: MN3102, and at least another 30 credits from MN3101 – MN4267</p> <p>Level 4: MN4203 and at least 30 credits from MN4204 - MN4267</p> <p>Other Information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

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Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Management with Spanish[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>Not available to entrants from 2008-09</p>	<p>Management element of Major Degree Programme:</p> <p>Level 1: 40 credits consisting of passes in MN1001 and MN1002</p> <p>Level 2: 40 credits consisting of passes in MN2001, MN2002 with an average of 11 or better.</p> <p>Level 3: 20 credits consisting of MN3102 and a further 40 credits from MN3101 - MN4267</p> <p>Level 4: 20 credits from MN4203 and 80 credits from MN4204 - MN4267.</p> <p>Other Information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(M.A. Honours): Modern Languages with Management[^]</p> <p>French-German with Management[^]</p> <p>French-Italian with Management[^]</p> <p>French-Russian with Management[^]</p> <p>French-Spanish with Management[^]</p> <p>German-Italian with Management[^]</p> <p>German-Russian with Management[^]</p> <p>German-Spanish with Management[^]</p> <p>Italian-Russian with Management[^]</p> <p>Italian-Spanish with Management[^]</p> <p>Russian-Spanish with Management[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Management element of Minor Degree Programme:</p> <p>Level 1: 40 credits consisting of passes in MN1001 and MN1002</p> <p>Level 2: 40 credits consisting of passes in MN2001, MN2002 with an average of 11 or better.</p> <p>Level 3: 20 credits consisting of MN3102, and a further 40 credits from MN3101 - MN4267.</p> <p>Level 4: 20 credits from MN4203 and up to 20 credits from MN4204 - MN4267.</p> <p>Other Information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(B.Sc. Honours): Management Science</p>	<p>Single Honours Management Science Degree:</p> <p>Level 1: 80 credits consisting of passes in MN1001 and MN1002, MT1002, MT1007</p> <p>Level 2: 100 credits consisting of passes in MT2001, MT2004 and passes with an average of 11 or better in MN2001, MN2002.</p> <p>Level 3: at least 110 credits consisting of MN3101, MN3102, MN3201, MN3202, MT3832, MT3833.</p> <p>Level 4: at least 100 credits including MN4203, 30 credits from MT3703, MT4527, MT4608, and the rest from MN4204 - MN4267.</p>

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Management Science and Computer Science, Economics, Environmental Geoscience, Geography, Geoscience, Internet Computer Science, Mathematics, Statistics.	<p>Management Science element of Joint Honours Degrees:</p> <p>Level 1: 80 credits consisting of passes in MN1001, MN1002, MT1001, MT1007</p> <p>Level 2: 40 credits consisting of passes in MN2001, MN2002 with an average of 11 or better.</p> <p>Level 3: at least 70 credits consisting of MN3101, MN3102, MT3832, MT3833</p> <p>Level 4: 20 credits from MN4203 and at least 20 credits from MN4204 - MN4267.</p> <p>Other Information: In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

Management (MN) Modules

MN3101 Corporate Finance and Control

Credits: 20 Semester: 2

Description: This module separates the problems of financially vulnerable firms from financially strong firms. The balance sheets and cash flows of vulnerable firms tend to be unusually susceptible to financial pressures and cyclical influences; asymmetries of information and agency costs operate as constraints on the access of such firms to external funding; they are likely to experience both credit and equity rationing in conditions of high interest rates; cash-flow interdependencies may adversely affect dividend and capital expenditure decisions alike. Financially strong firms to a large extent cope with such problems. Major decisions in financial management are presented in modern theory as multiple signals, which may corroborate or contradict one another, emitted by each firm.

Class Hour: 4.00 - 6.00 pm

Teaching: 2 hour lecture plus workshops and tutorials.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

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MN3102 Organisation Studies

Credits: 20 Semester: 1

Description: This module examines major organisational theories, surveys key topics in this area, and explores organisational forms that have emerged in recent times. The study of organisations has become a major topic of study, drawing on disciplines such as economics, sociology, psychology, anthropology, and history. The interdisciplinary nature of organisation studies has produced a wide variety of perspectives. These perspectives are based on different assumptions, and place strong emphasis on certain aspects of the organisation at the expense of others. When brought together, however, they yield a rich multifaceted picture of power socioeconomic systems that shape our lives.

Class Hour: 4.00 - 6.00 pm

Teaching: 2 hour lecture plus tutorials.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MN3126 International Business

Credits: 20 Semester: 2

Availability: 2009-10

Anti-requisite: MN4233

Description: This module is intended to provide an introduction to the complexities and challenges of International Business. This is in preparation for more advanced Seminar and Dissertation work carried out at 4000 Level. It will build on pre-Honours work to address a number of detailed issues facing managers in multinationals, such as 1) internationalisation strategies, 2) country evaluation and selection, 3) the role and impact of government on internationalisation, 4) international markets and marketing, 5) international HRM, 6) the managerial control of multinationals, 7) Foreign Direct Investment and 8) International trade. It will thereby offer students the opportunity to analyse the implications of international business decisions at a range of levels, from (primarily) a strategic perspective.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar supplemented by tutorials.

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

MN3201 Research Methods: I

Credits: 20 Semester: 1

Availability: 2009-10

Co-requisite: MN3202

Description: This module introduces research in the Social Sciences. It focuses on the skills and knowledge involved in understanding, evaluation and conducting research in the wider management field. The module will develop and begin to refine competencies that will occupy the students throughout their professional careers. Doing good research requires time, observation, diligence and reasoning. The module will explore issues, methods and dilemmas central to conducting and analysing research. The central theme throughout the module will be the examination of the links between the theoretical and empirical realms. In taking this module, students will experience the challenges of research and, with a diligent approach, they will also experience the thrill of discovery.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar supplemented by tutorials.

Assessment: Continuous Assessment = 100%

MN3202 Research Methods: 2

Credits: 20 Semester: 2

Availability: 2009-10

Co-requisite: MN3201

Description: This module follows on from MN3201. It builds key research competencies in library search, problem definition, literature review and study design. These competencies will be developed using a combination of class lecture; library visit; group 'surgeries'; group progress meetings; one-to-one work with individual members of academic staff; and self motivated and conducted research. Students are expected to master library research techniques, including the use of electronic resources in research; literature synthesis; research problem formulation; and the preparation of a clear and the preparation of clear and focused research proposals.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar. One-to-one supervision of research proposal formulation arranged with individual supervisors

Assessment: Continuous Assessment = 100%

MN4203 Dynamic Strategic Management

Credits: 20 Semester: 2

Availability: 2009-10

Prerequisites: Available only to students in the second year of the Honours Programme.

Description: The module introduces students to the basic principles of analysing strategic issues in a dynamic setting. It provides an overview of the complexity of strategic management within the context of increasing global competition. It covers the historical antecedents of modern approaches; evaluates rational, incremental, and evolutionary views on strategy formulation; includes corporate industrial analysis and examines analytical approaches such as portfolio models. Strategy formulation and implementation are considered in practice by using a combination of the results of consulting work, guest speakers, and case studies.

Class Hour: 4.00 - 6.00 pm

Teaching: 2 hour lecture plus tutorials.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MN4204 Change, Complexity and Innovation

Credits: 20 Semester: 2

Availability: 2009-10

Description: The objectives of this module are to explore the importance of product, process and organisational innovation to competitiveness. These issues are considered by a review of the product development process; contrasting ways of understanding radical change in an economic sector or region; contemporary approaches to organisational innovation, including 'learning organisation' and 'knowledge management'.

Class Hour: 11.00 am - 1.00 pm Wednesday.

Teaching: 2 hour lecture, plus tutorials.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MN4209 Management Project

Credits: 20 Semester: 1 or 2

Prerequisites: MN3201 & MN3202

Description: Students are required to complete the Management Research Project closely based upon the research proposal submitted in MN3202. The module can be taken in either the first or second semester of the Senior Honours year. The completed work is expected to be 6000 – 8000 words in length. It may involve fieldwork or desk-based research, or a combination of both. It should have a strong conceptual or theoretical component. It may be of a problem solving nature. Time management and the ability to work to deadlines will be integral to the assessment. The assessed work will be scored for clarity, focus, purpose, rationale and attention to detail.

Teaching: Supervised piece of independent study (including field work).

Assessment: Project report/dissertation (6-8000 words) = 100%

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MN4211 International Marketing

Credits: 20 Semester: 1

Availability: 2009-10

Description: This module begins by examining the scope of international marketing and identifying the nature of this specialised environment. It continues with an exploration of the range of international market entry and pricing strategies and ends with a review of the impact of ethical considerations and the political dimensions of international marketing.

Class Hour: To be arranged.

Teaching: 2 hour lecture plus tutorials.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

MN4213 Human Resource Management

Credits: 20 Semester: 2

Availability: 2009-10

Description: This module is an introduction to the subject which builds on students' existing knowledge of management. It aims to develop participants' critical appreciation of the role of HRM in organisations and to promote an understanding of the issues faced by managers in attracting, motivating and retaining employees.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar plus tutorials.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

MN4214 Management of Change

Credits: 20 Semester: 2

Availability: 2009-10

Description: This module examines the process of change and how this process might be managed. Various models for bringing about planned change are analysed and their strengths and weaknesses highlighted. The issues of team building, participation and resistance to change will be addressed. Case studies enable the links between theory and practice to be made; these cases will focus on managing technical change, introducing cultural change and improving the quality of goods and services.

Class Hour: To be arranged.

Teaching: 2 hour lecture plus tutorials

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MN4223 International Banking

Credits: 20 Semester: 2

Availability: 2009-10

Description: International banks operate on a cross-border basis. They buy and sell foreign exchange, diversify international risks and advance credit for trade and investment projects. Typically international banks are large domestic commercial banks, which often operate in Euro markets and offshore centres. This module covers two main areas. In the first part students will examine the characteristics of international banking and the markets and activities in which international banks operate. In the second part, the module is concerned with the regulation of international banking. The role of institutions such as the World Bank and IMF, and the causes and effects of international banking crises are featured. This module aims to give students a good grounding in the theory and practice of modern international banking and an appreciation of the related policy issues involved.

Class Hour: To be arranged.

Teaching: 2 hour lecture plus tutorials.

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

MN4224 Consuming Culture

Credits: 20 Semester: 1

Availability: 2009-10

Description: This module considers a number of key issues which are linked to the emergence of what some would call a global consumer society. We shall first explore the historical development of consumer societies and address the question of whether these are primarily individualist or collectivist in nature. Following from this, the module invites discussion of a range of topical issues with respect to consumer society including changing perceptions of space and time, involving an expansion of space and an apparent slowing down of time; ideas about morality and value; the creation of meaning; consumer identity; people's relation to the body; finally addictive consumption.

Class Hour: To be arranged.

Teaching: 2 hour lecture plus tutorials.

Assessment: Continuous Assessment = 30%, 3 Hour Examination = 70%

MN4225 Scenario Thinking

Credits: 20 Semester: 1

Availability: 2009-10

Description: The structure of environments facing organisations or nations can lie on a scale where the ends represent the static and simple interplay of variables or their dynamic and complex counterparts. The former can best be understood by formal and systematic analysis where the use of quantitative forecasting techniques is especially useful. The latter, which represents the structure of many global sector and market environments, is best analysed using softer, qualitative techniques. Of these, scenario thinking has gained significant ground since its commercial birth in the 1960s. It involves the careful building of stories about how potential futures might evolve. The scenarios are then used for a variety of purposes, e.g. public policy and organisational strategy formation, the testing of new ideas, the evaluation of new markets or of individual project proposals. The methodologies are many but each requires a multi disciplinary input ranging from history, social anthropology, ethics, political economy, meteorology and global affairs amongst others. This module will explore the history of scenario building from its military origins; appraise the competing scenario methodologies; build scenarios on a pressing contemporary issue in a team; evaluate the impact of the resulting scenarios on existing strategies and resources to assess their robustness and develop a sequence of appropriate actions.

Class Hour: Four evenings, 6.00 – 9.00 pm of formal lectures immediately prior to the workshop of 2 full days 8.00 am – 8.00 pm.

Teaching: Extensive pre-reading, 12 hours of formal lectures, case study sessions and tutorials, electronic based research on key issues, and 24 intensive workshop hours involving objective setting, individual and team work, organisation of research, data gathering, analysis and scenario generation under time pressure.

Assessment: Continuous Assessment = 100%

MN4227 Corporate Social Responsibility, Accountability and Reporting

Credits: 20 Semester: 1

Availability: 2009-10

Prerequisites: EITHER both MN2001 & MN2002 OR SD2002

Description: This module provides an introduction to and analysis of corporate social responsibility and sustainability, the meaning, tensions and conflicts that social responsibility entails and the role that accountability can play in the discharge of responsibility in a democracy. The module will examine the theory and practice of social, environmental and sustainability reporting as a manifestation of social and environmental accountability and explore and assess current experiences with that reporting. The module will examine the practical and political constraints on the development of substantive social, environmental and sustainability reporting and explore different ways in which the discharge of social accountability might be achieved.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar supplemented by tutorials.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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MN4235 Public Sector Management

Credits: 20 Semester: 2

Availability: Not available 2009-10

Description: Public sector organisations play an important part in everyone's life. Many people are born in public sector hospitals, are educated in public sector schools and colleges, and many then go on to work in or with public sector organisations. As citizens we pay taxes and play a part in the democratic process of electing governments. No matter where you see your future career taking you, it is likely that part of your time will be spent working with the public sector, even if you are not employed in that sector. To do this effectively you need to understand the role of the public sector and its relationship with the private and voluntary sectors. It is also important to understand the task of management in the public sector and the extent to which this differs from private sector management.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar plus tutorials.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MN4238 Sustainable Development and Management

Credits: 20 Semester: 2

Availability: 2009-10

Prerequisites: EITHER both MN2001 & MN2002 OR SD2002

Description: This module examines the origin of the concept of sustainable development in public policy discourses with particular focus on the implications this concept has for the operation of business organisations. The module will examine the difficulties of applying notions of sustainable development to single organisations as well as the challenges which conventional economic systems present to sustainable development. The module will examine the theory and practice of managing for sustainable development, drawing on examples which are found in business. In addition, selected topics in managing for sustainable development will be examined.

Class Hour: To be arranged.

Teaching: 2 hour lecture/seminar plus tutorials.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

MN4239 Advertising: A Social History (ASH)

Credits: 20 Semester: 1

Availability: 2009-10

Prerequisites: MN3102

Description: This module studies the evolution of advertising from the earliest known examples to the present state of the art. Developing critical and post-critical perspectives, it explores some key changes in advertising theory and technique and makes full use of exemplars. The module focuses on specific social concerns represented in branding and advertising and their historical development, including mythology, sexuality, gender, ethnicity, class, wealth, work and leisure, types of goods and patterns of consumption.

Class Hour: To be arranged.

Teaching: 2 hour lecture plus tutorials.

Assessment: Continuous Assessment = 100%

MN4262 Social Theory & Work Organisation

Credits: 20 Semester: 2

Availability: 2009-10

Description: The objectives of this module are to explore the contribution of leading social theorists to our understanding of historical patterns of work organisation. The syllabus includes: Marx and the Labour Process; Weber and Bureaucracy; Foucault and Surveillance; The First Factories: Inside the Mass Production Factory; Resilience of Craft Production; The MacDonaldisation of Services?; Bright Satanic Offices?: Microserfs?: Writing Software, Coding Signs.

Class Hour: 9.00 - 11.00 am Wednesday.

Teaching: 2 hour lecture/seminar, supplemented by tutorials.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MN4263 Entrepreneurship and Small Business Development

Credits: 20 Semester: 1

Availability: 2009-10

Description: Enterprise lies at the heart of economic growth and development. The aim of this unit is to develop students' awareness of the various debates concerning the nature of Entrepreneurship in the society and in the economy. It will also enable students to make use of the various concepts of entrepreneurship in understanding the small business development process, and provide an insight into how those going through this process may be supported and assisted.

Class Hour: To be arranged.

Teaching: 2 hour lecture.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

MN4266 Non-Governmental Organisations (NGOs): contexts, contributions and challenges

Credits: 20 Semester: 1

Availability: 2009-10

Description: Voluntary organisations are highly significant actors within society, the democratic polity, and the economy. They are also commonly perceived to be distinctive organisations in certain key respects that set them apart from either public sector organisations or commercial enterprises, and which make them particularly challenging to manage. This module will examine the roles played by voluntary organisations, the nature of the organisations themselves, and the issues and challenges that they are facing as a number of significant shifts, that include, for example, technological developments and major public policy initiatives, occur within the wider external environment in which they are embedded. The module will be of interest to students who are considering a career in the voluntary sector, government, the wider public sector, or as management consultants.

Class Hour: To be arranged

Teaching: Seminars, workshops and occasional lectures

Assessment: Continuous Assessment = 100%

MN4267 Creative Industries

Credits: 20 Semester: 2

Availability: 2009-10

Description: This module is an introduction to the management of the creative industries, that is, those industries that are characterized by the generation and exploitation of intellectual property. It examines the nature and role of creative industries in their economic context and considers some of the distinct managerial and organisational challenges that characterise these industries. In relation to the latter, the course considers some of the challenges raised by the uncertainty of demand for the creative product; the conflicts between economic and creative or artistic interests; the management of creative individuals or teams; and the institutional supports that sustain creative practice and markets.

Class Hour: To be arranged

Teaching: Seminars and lectures

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

School of Mathematics & Statistics

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 (H) levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 (H) levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

M.Math. Honours

General requirements are 600 credits over a period of normally 5 years or 4 years with Advanced Standing (and in no circumstances more than 6 years) or part-time equivalent; an approved Honours programme of at least 330 credits of which 120 credits are at 5000 level and at least a further 210 are at 3000 level and above.

Other Information: In the case of students who spend part of the BSc/MA Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.Math. Honours): Applied Mathematics	<p>Single Honours M.Math. Applied Mathematics Degree:</p> <p>Level 1: At least 20 credits comprising MT1002</p> <p>Level 2: At least 60 credits comprising at least grade 15 in MT2001 and MT2003</p> <p>Level 3: At least 60 credits comprising MT3501, MT3503, MT3504, MT3601</p> <p>Level 4: At least 45 credits comprising MT4005, MT4509 and MT4510. In addition at least one of MT4111, MT4112, MT5611 and MT5612</p> <p>Level 5: At least 120 credits overall which must include MT5999 and at least 60 credits from MT5802, MT5806, MT5809, MT5810, MT5990</p>

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Degree Programmes	Programme Requirements at:
(M.Math. Honours): Mathematics	<p>Single Honours M.Math Mathematics Degree:</p> <p>Level 1: At least 20 credits including MT1002. In addition credit in one of MT1007, MT1008, MT2004 must normally be gained at some stage.</p> <p>Level 2: At least 90 credits including MT2001 (at grade 15 or better), and two of MT2002, MT2003, MT2004 and MT2005 (with one at grade 15, or better, and another at grade 11 or better)</p> <p>Level 3: At least 60 credits including MT3501, MT3503, MT3504 and at least one of MT3600, MT3601 and MT3606</p> <p>Level 4: At least 30 credits including at least 2 of MT4003, MT4004, MT4509, MT4510, MT4606.</p> <p>Level 5: At least 120 credits overall which must include MT5999 and at least 60 credits from MT5751-MT5759, MT5802, MT5806, MT5809, MT5810, MT5823-MT5829, MT5990.</p> <p>In addition at least one of MT3607, MT4111, MT4112, MT5611 and MT5612.</p>
(M.Math. Honours): Pure Mathematics	<p>Single Honours M.Math Pure Mathematics Degree:</p> <p>Level 1: At least 20 credits including MT1002</p> <p>Level 2: At least 60 credits including a pass at 15 or better in MT2001 and MT2002</p> <p>Level 3: At least 60 credits including MT3501, MT3503, MT3504 and MT3600</p> <p>Level 4: At least 30 credits including MT4003 and MT4004. In addition at least one of MT4111, MT4112, MT5611 and MT5612.</p> <p>Level 5: At least 120 credits overall which must include MT5999 and at least 60 credits from MT5823-MT5829, MT5990</p>
(M.Math. Honours): Statistics	<p>Single Honours Statistics M.Math. Degree:</p> <p>Level 1: At least 20 credits including MT1002</p> <p>Level 2: At least 60 credits including a pass at 15 or better in MT2001 and MT2004</p> <p>Level 3: At least 45 credits including MT3501, MT3606 and MT3607</p> <p>Level 4 & Level 5: The programme must include:</p> <ul style="list-style-type: none"> - at least one of MT4527 and MT4608; - at least one of MT5701 and MT5831; - at least two of MT5751, MT5752, MT5757, MT5758, MT5759; - MT5753; - A project MT5999 on a statistical topic; - At least 120 credits at level 5.

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours or M.A. Honours): Mathematics</p>	<p>Single Honours Mathematics Degrees: Level 1: At least 20 credits comprising MT1002</p> <p>In addition credit in one of MT1007, MT1008 or MT2004 must normally be gained at some stage.</p> <p>Level 2: At least 60 credits comprising passes at 11, or better, in MT2001 and at least one of MT2002, MT2003, MT2004 and MT2005</p> <p>Level 3 and 4:</p> <ul style="list-style-type: none"> - 45 credits comprising MT3501, MT3503 and MT3504; - at least one of MT3600, MT3601 and MT3606 - MT4599; - at least one of MT3607, MT4111, MT4112.
<p>(B.Sc. Honours): Mathematics and Chemistry, Computer Science, Economics, Geography, Internet Computer Science, Logic & Philosophy of Science, Management Science, Physics, Psychology.</p> <p>(M.A. Honours): Mathematics and Ancient History, Arabic, Art History, Biblical Studies, Classical Studies, Economics, Hebrew, International Relations, Italian[^], Latin, Mediaeval History, Modern History, Philosophy, Psychology, Russian[^], Scottish History, Spanish[^], Theological Studies.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Mathematics element of Joint Honours Degrees: Level 1: 20 credits comprising MT1002</p> <p>Level 2: 60 credits comprising passes at 11 or better in MT2001 and one of MT2002 or MT2003</p> <p>Level 3 and level 4: Normally a total of 120 credits which must include:</p> <ul style="list-style-type: none"> - at least two of MT3501, MT3503 and MT3504; - at least one of MT3600 and MT3601; - at least one of MT4111, MT4112; - MT4599. <p>Note The total number of MT 3000-level and 4000-level credits may be reduced to no less than 90 with the permission of the Director of Teaching.</p> <p>Other Information: In total (between the two Schools) 240 credits are normally required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>
<p>(B.Sc. Honours): Mathematics with French[^] or Geography or German[^] or Russian[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>Not available to entrants from 2008-09</p> <p>(M.A. Honours) Mathematics with Russian[^] or Spanish[^]</p>	<p>Mathematics element of Major Degree with a Modern Language: Level 1: 20 credits comprising MT1002</p> <p>Level 2: 60 credits comprising passes at 11, or better, in MT2001 and one of MT2002 or MT2003</p> <p>Level 3 and level 4: Normally a total of 180 credits which must include:-</p> <ul style="list-style-type: none"> - at least two of MT3501, MT3503, MT3504; - at least one of MT3600 and MT3601; - at least one of MT4111, MT4112; - MT4599. <p>Other Information: In total (between the two Schools) 240 credits are normally required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

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Degree Programmes	Programme Requirements at:
<p>(M.Phys. Honours):</p> <p>Mathematics and Theoretical Physics</p>	<p>Mathematics element of Joint M.Phys. Degree:</p> <p>Level 1: 20 credits comprising MT1002</p> <p>Level 2: 60 credits comprising MT2001, at grade 15 or better, and one of MT2002 or MT2003</p> <p>(Direct entry students to this programme who take MT1002 and MT2001 in their first year of study should normally take one of MT2002 and MT2003 in their second year of study.)</p> <p>Level 3: 30 credits comprising MT3501 and MT3504</p> <p>Level 4: At least 45 credits comprising at least three 4000-level MT modules.</p> <p>Level 5: A project (either MT5999 or PH5102) together with a further 40 credits in 5000-level MT modules.</p> <p>Note Normally the Honours programme will comprise either 180 credits in MT modules at 3000 level and above, or 150 credits in MT modules at 3000 level and above together with a 30 credit MT module at 2000 level.</p>
<p>(B.Sc. or M.A. Honours):</p> <p>Statistics</p>	<p>Single Honours Statistics Degrees:</p> <p>Level 1: At least 20 credits including MT1002</p> <p>Level 2: At least 60 credits including passes at 11, or better, in MT2001 and MT2004</p> <p>Level 3 and level 4:</p> <ul style="list-style-type: none"> - MT3501 - MT3606 - At least one of MT3607, MT4111, MT4112 - MT4606 - MT4607 - At least two of MT4531, MT4608, MT4609 - MT4599
<p>(B.Sc. Honours):</p> <p>Statistics and one of Computer Science, Economics, Geography, Internet Computer Science, Logic & Philosophy of Science, Management Science.</p> <p>(M.A. Honours):</p> <p>Statistics and one of Economics, Philosophy</p>	<p>Statistics element of Joint Honours Degrees:</p> <p>Level 1: At least 20 credits including MT1002</p> <p>Level 2: At least 60 credits comprising passes at 11, or better, in MT2001 and MT2004</p> <p>Level 3 and level 4: Normally 120 credits which must include</p> <ul style="list-style-type: none"> - 30 credits comprising MT3501, MT3606; - at least two from MT3703, MT4531, MT4606 - MT4609; - MT4599. <p>Other Information: In total (between the two Schools) 240 credits are normally required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

Normally the prerequisite for each of the following Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School before making their selection.

The prerequisite for each of the following 5000-level modules is entry to the MPhys or MMath Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

InterDisciplinary (ID) Modules

There is a module to which this School contributes – **ID4001 Communications and Teaching in Science** which also appears in the InterDisciplinary Section of the Catalogue (Section 23)

ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

Mathematics & Statistics (MT) Modules

MT3501 Linear Mathematics

Credits: 15 Semester: 1

Prerequisite: MT2001

Description: This module aims to show the importance of linearity in many areas of mathematics ranging from linear algebra through to geometric applications to linear operators and special functions. The main topics covered are: linear dependence and independence; change of basis; inner product spaces; inequalities; convergence in Euclidean spaces; Fourier series and adjoint and self-adjoint operators.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 10%, 2 Hour Examination = 90%

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MT3503 Complex Analysis

Credits: 15 Semester: 1

Prerequisite: MT2001

Description: This module aims to introduce students to analytic function theory and applications. The topics covered include: analytic functions; Cauchy-Riemann equations; harmonic functions; multivalued functions and the cut plane; singularities; Cauchy's theorem; Laurent series; evaluation of contour integrals; fundamental theorem of algebra; Argument Principle; Rouché's Theorem.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 10%, 2 Hour Examination = 90%

MT3504 Differential Equations

Credits: 15 Semester: 1

Prerequisite: MT2001

Description: The object of this module is to provide a broad introduction to analytical methods for solving ordinary and partial differential equations and to develop students' understanding and technical skills in this area. This module is a prerequisite for several other honours options. The syllabus includes: existence and uniqueness of solutions to initial-value problems; series solutions of second-order o.d.e.'s; examples including Bessel, Legendre and Airy equations; nonlinear o.d.e.'s; classification of second order linear p.d.e.'s; method of separation of variables; eigenvalues for boundary conditions of mixed type; characteristics and reduction to canonical form.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 10%, 2 Hour Examination = 90%

MT3600 Fundamentals of Pure Mathematics

Credits: 15 Semester: 1

Prerequisite: MT2002 or (MT2001 and MT1003)

Description: The aim of this module is to introduce the fundamental algebraic and analytic concepts in pure mathematics in the context of the number systems.

Class Hour: 10.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT3601 Fundamentals of Applied Mathematics

Credits: 15 Semester: 1

Prerequisites: MT2001 and MT2003

Anti-requisite: MT4601

Description: This module is designed to introduce students to the mathematical methods which are needed to go on to further study of fluid mechanics, magnetohydrodynamics and electromagnetism. It consists of a revision of the techniques of vector calculus, followed by a discussion of the basic equations of fluid dynamics and electromagnetism. The properties of these equations are then illustrated by considering some basic properties of fluid flow and of magnetohydrodynamics.

Class Hour: 10.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT3606 Statistical Methods

Credits: 15 Semester: 1

Prerequisite: MT2004

Description: This module provides a bridge between second year and Honours modules in statistics. Topics covered include nonparametric methods, analysis of Poisson data, distribution theory, introduction to Bayesian methods, likelihood-based methods. The module covers some of the basic tools used by statisticians to develop a wide range of statistical methods.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 10%, 2 Hour Examination = 90%

MT3607 Computing in Statistics

Credits: 15 Semester: 2

Prerequisites: MT2004; or MT2001 together with one of (MT1007, MT1008 or admission to MSci in Applied Quantitative Finance)

Description: Students will gain experience with the software package SAS and the statistical language and environment R. Statistical computing exercises include using and writing software to (1) extract and organize electronically stored data, (2) search for patterns and meaningful relationships, (3) fit mathematical models to characterize relationships succinctly, (4) produce useful graphical and numerical summaries.

Class Hour: 9.00 am

Teaching: Two lectures and one practical class.

Assessment: Continuous Assessment = 100%

MT3706 Markov Chains and Processes

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: MT2004

Description: This module provides an introduction to the theory of stochastic processes and to their use as models, including applications to population processes and queues. The syllabus includes the Markov property, the Chapman-Kolmogorov equations, classification of states of Markov chains, decomposition of chains, stationary distributions, random walks, branching processes, the Poisson process, birth-and-death processes and their transient behaviour, embedded chains, Morkovian queues.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT3802 Numerical Analysis

Credits: 15 Semester: 1

Prerequisites: MT2001

Anti-requisite: MT4502

Description: The module will introduce students to some topics in numerical analysis, which may include methods of approximation, numerical integration, solution of systems of linear equations by elimination and by iterative methods.

Class Hours: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 20%, 2 Hour Examination = 80%

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MT3832 Mathematical Programming

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisites: MT2001 (or MT1002 and MN2002)

Anti-requisite: MT4532

Description: The aim of this module is to introduce students to the formulation and solution of various linear programming problems. The subject matter will be illustrated by applying the methods of solution to real examples. The syllabus includes: formulation of linear problems; solution graphically and by simplex algorithm; sensitivity analysis; duality; transportation and transshipment; the assignment problem.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT3833 Utilities, Decisions and Inventories

Credits: 15 Semester: 2

Availability: 2010–11

Prerequisite: MT2004 or (MT2001 and MT1007)

Anti-requisite: MT4533

Description: This module is intended to provide an introduction to the formulation and solution of problems of decision-taking and problems in the management of inventory systems for a single item, to motivate the need for utility functions, and to explain how they are assessed and employed. The syllabus includes: decision theory; maximin and Bayesian approaches; Bayes theorem; Bellman's optimality principle; utility theory; utility functions; inventory theory.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4003 Groups

Credits: 15 Semester: 2

Prerequisite: MT3600 or (MT2002 and MT3501)

Anti-requisites: MT3603, MT4603

Description: This module introduces students to group theory, which is one of the central fields of the 20th century mathematics. The main theme of the module is classifying groups with various additional properties, and the development of tools necessary in this classification. In particular, the students will meet the standard algebraic notions, such as substructures, homomorphisms, quotients and products, and also various concepts peculiar to groups, such as normality, conjugation and Sylow theory. The importance of groups in mathematics, arising from the fact that groups may be used to describe symmetries of any mathematical object, will be emphasised throughout the module.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4004 Real and Abstract Analysis

Credits: 15 Semester: 2

Prerequisite: MT2002 or with the approval of the module coordinator

Anti-requisites: MT3604, MT4604

Description: This module continues the development of real analysis started in MT2002. Topics that will be treated from a rigorous point of view may include: differentiation, Riemann integration, uniform convergence, function spaces.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4005 Linear and Nonlinear Waves

Credits: 15 Semester: 1

Prerequisites: MT2003 and (MT3503 or MT3504)

Anti-requisites: MT3605, MT4605

Description: This module gives an introduction to wave motion and its importance in many areas of applied mathematics. It begins with a discussion of the linear approximation for small amplitude waves and discusses properties of these such as dispersion relations, phase and group velocities, dissipation and dispersion. Some nonlinear effects such as wave steepening are then treated and an introduction given to some of the equations, for example Burger's and Korteweg de Vries, which are used to model nonlinear wave propagation.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4111 Symbolic Computation

Credits: 15 Semester: 2

Availability: 2010–11

Prerequisite: MT3501 or MT3503 or MT3504

Anti-requisite: MT3611, MT5611

Description: This module aims to enable students to use Maple as a tool in their other modules and to turn naturally to such a package when solving mathematical problems. The module aims to illustrate the following points: a symbolic computation package allows one to conduct mathematical experiments; a symbolic computation package allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The machine is stupid. Intelligence comes from the user. The user thinks, the user interprets, the computer calculates.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

MT4112 Computing in Mathematics

Credits: 15 Semester: 1

Availability: 2009-10

Co-(Pre)requisites: MT3504

Anti-requisites: MT3612, MT5612, Honours or Joint Honours Programme in Computer Science.

Description: This module is intended to introduce students to FORTRAN and the writing of computer codes to implement mathematical algorithms. The module includes a basic introduction to FORTRAN, and the implementation of mathematical algorithms in a well-documented FORTRAN program. Students are required to complete a project in addition to sitting the examination.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: Project = 30%, 2 Hour Examination = 70%

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MT4501 Topics in the History of Mathematics

Credits: 15 Semester: 1

Prerequisite: one of MT3501, MT3503, MT3504, MT3606

Anti-requisite: MT3801, MT5613

Description: The aim of this module is to give students an insight into the historical development of mathematics. Topics to be covered may include some of: the development of algebra, the origins of the calculus, the history of logarithms, the work of some individual mathematicians.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment: Project = 50%, Two Class Tests = 50%

MT4507 Classical Mechanics

Credits: 15 Semester: 2

Availability: 2010–11

Prerequisite: MT2003 and (MT3503 or MT3504)

Anti-requisite: MT3807

Description: The object of this module is to introduce students to some of the ideas and mathematical techniques used in understanding the behaviour of dynamical systems that obey Newton's Laws. These notions are arguably the foundations of physics and applied mathematics. The module will include: Newton's laws of motion; conservative forces; central forces; non-inertial/accelerating frames of reference; dynamics of a system of particles; mechanics of a rigid body; Euler's equations; Lagrange's equations; Hamilton's equations.

Class Hour: 100 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4508 Dynamical Systems

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisite: MT3504

Anti-requisite: MT3808

Description: This module aims to introduce students to the basic ideas of the modern theory of dynamical systems and to the concepts of chaos and strange attractors. The module will include: period doubling; intermittency and chaos; geometrical approach to differential equations; homoclinic and heteroclinic orbits; Poincaré sections; the Smale horseshoe mapping; centre manifold theory.

Class Hour: 10.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4509 Fluid Dynamics

Credits: 15 Semester: 2

Prerequisite: MT3601 (or MT4601)

Description: This module provides an introduction to the theory of incompressible fluid dynamics, which describes the motion of liquids and gases at speeds small compared to the sound speed. Special attention is paid to a precise foundation of the various conservation laws that govern fluid dynamics, as this provides a convenient framework in which to study specific examples as well as extensions of the basic theory.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4510 Solar Theory

Credits: 15 Semester: 2

Prerequisite: MT3601

Anti-requisites: MT4504, MT5804

Description: The object of this module is to describe the basic dynamic processes at work in the Sun, a subject which is being enlivened by dramatic new results from space missions.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4511 Asymptotic Methods

Credits: 15 Semester: 1

Availability: 2010–11

Prerequisite: MT3504

Anti-requisite: MT3811

Description: This module is designed to introduce students to asymptotic methods used in the construction of analytical approximations to integrals and solutions of differential equations.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4513 Fractal Geometry

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisite: MT3501 or MT3503 or MT3504

Anti-requisite: MT3813, MT5813

Description: The aim of this module is to introduce the mathematics used to describe and analyse fractals and to show how the theory may be applied to examples drawn from across mathematics and science. The module discusses the philosophy and scope of fractal geometry; and may include topics such as dimension, representation of fractals by iterated function systems, fractals in other areas of mathematics such as dynamical systems and number theory, Julia sets and the Mandelbrot set.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4514 Graph Theory

Credits: 15 Semester: 2

Availability: 2010–11

Prerequisite: MT3501 or MT3503 or MT3504

Anti-requisite: MT3814

Description: The aim of this module is to introduce students to the study of graph theory as a tool for representing connections between data. Topics to be covered may include: basic theory and applications, Eulerian graphs, Hamiltonian graphs, planar graphs, spanning trees and applications, networks, matching problems.

Class Hour: 10.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

Mathematics & Statistics – Honours 2009/10 – August 2009

MT4515 Functional Analysis

Credits: 15 Semester: 2
Availability: 2010–11
Prerequisite: MT2002 or with the approval of the module coordinator
Anti-requisite: MT3815

Description: This object of this module is to familiarise students with the basic notions of functional analysis, that is analysis on normed spaces and Hilbert space. The module will cover normed spaces, convergence and completeness, operators, Hilbert spaces and may include topics such as spectral theory and the Hahn-Banach theorem.

Class Hour: 12.00 noon
Teaching: Two lectures and one tutorial.
Assessment: 2 Hour Examination = 100%

MT4516 Finite Mathematics

Credits: 15 Semester: 1
Availability: 2009-10
Prerequisites: one of MT3501, MT3503, MT3504, MT3606
Anti-requisite: MT3816

Description: The aim of this module is to introduce students to some topics in the mathematics of combinatorial structures. This theory has wide applications, both in classical mathematics and in theoretical computer science. Topics to be covered may include: coding theory, finite geometries, Latin squares, designs.

Class Hour: 9.00 am
Teaching: Two lectures and one tutorial.
Assessment: 2 Hour Examination = 100%

MT4517 Rings and Fields

Credits: 15 Semester: 1
Availability: 2010–11
Prerequisite: MT3600 or (MT2002 and MT3501)
Anti-requisite: MT3817

Description: Historically, rings have appeared as generalisations of number systems (integers, in particular) with the intention of gaining deeper insight into number systems themselves. This will be reflected in this module, where students will study familiar concepts, such as factorisation, primeness, divisibility etc., in a new, more general, setting of commutative rings. In addition, the module may include topics from: rings of quotients, finite fields and extensions of fields.

Class Hour: 11.00 am
Teaching: Two lectures and one tutorial.
Assessment: 2 Hour Examination = 100%

MT4519 Number Theory

Credits: 15 Semester: 2
Availability: 2009-10
Prerequisite: one of MT3501, MT3503, MT3504
Anti-requisite: MT3819

Description: The aim of this module is to introduce students to some important topics in number theory. Topics to be covered may include: prime numbers, cryptography, continued fractions, Pell's equation, the Gaussian integers and writing numbers as sums of squares.

Class Hour: 10.00 am
Teaching: Two lectures and one tutorial.
Assessment: 2 Hour Examination = 100%

MT4521 Geometry and Topology

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisite: MT2002, (MT3600 or MT3501 or MT4003)

Description: The aim of this module is to elucidate the ancient subject of geometry with the modern algebraic insights of group theory and vector spaces, and show how the more recent subject of topology can be fitted into this framework.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4527 Forecasting

Credits: 15 Semester: 1

Availability: 2010–11

Prerequisites: MT2004 together with either (one of MT3501, MT3503, MT3606) or any MN3000 module.

Anti-requisite: MT3827

Description: This module provides an introduction to the forecasting of time series using both 'classical' moving average and exponential smoothing techniques and the Box-Jenkins approach. The syllabus includes: forecasting using moving average and exponential smoothing methods for constant mean and trend models, Holt-Winters method for seasonal models, the ARIMA class of models, fitting and forecasting for Box-Jenkins models.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4530 Population Genetics

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: MT2004 and one of MT3501, MT3503, MT3504, MT3606

Anti-requisite: MT3830

Description: This module aims to show how the frequencies of characteristics in large natural populations can be explained using mathematical models and how statistical techniques may be used to investigate model validity. The syllabus includes: Mendel's First and Second Laws, random mating and random union of gametes, Hardy-Weinberg equilibrium, linkage, inbreeding, assortative mating, X-linked loci, selection and mutation.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: 2 Hour Examination = 100%

MT4531 Bayesian Inference

Credits: 15 Semester: 2

Availability: 2010–11

Prerequisite: MT3606

Anti-requisite: MT3831, MT5831

Description: This module is intended to offer a re-examination of standard statistical problems from a Bayesian viewpoint and an introduction to recently developed computational Bayes methods. The syllabus includes Bayes' theorem, inference for Normal samples; univariate Normal linear regression; principles of Bayesian computational, Markov chain Monte Carlo – theory and applications.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial and practical classes.

Assessment: Continuous Assessment = 20%, 2 Hour Examination = 80%

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MT4537 Spatial Processes

Credits: 15 Semester: 2
Availability: 2009-10
Prerequisite: MT3606
Anti-requisite: MT4536

Description: This module will study probabilistic and inferential problems for spatial processes. It commences with a discussion on different types of spatial data. In the context of spatial point processes functional and non-functional summary characteristics for point patterns are considered. Spatial point process models, including homogeneous and inhomogeneous Poisson processes as well as Gibbs processes and Cox processes along with the approaches to parameter estimation and model evaluation, are introduced. Models in geostatistics based on empirical variograms and kriging approaches and spatial models for lattice data (CAR model, Gauss Markov random fields) are also discussed.

Class Hour: 11.00 am Wednesdays, Fridays and odd Mondays
Teaching: five lectures, one practical class and one tutorial per fortnight.
Assessment: 2 Hour Examination = 100%

MT4551 Financial Mathematics

Credits: 15 Semester: 2
Prerequisites: MT2001 and (MT3503 or MT3504)
Anti-requisite: MT3851

Description: Students are introduced to the application of mathematical models to financial instruments. The course will include an overview of financial markets and the terminology in common usage but the emphasis will be on the mathematical description of risk and return as a means of pricing contracts and options.

Class Hour: 10.00 am
Teaching: 2 lectures and one tutorial.
Assessment: 2 Hour Examination = 100%

MT4599 Project in Mathematics/Statistics

Credits: 15 Semester: Whole Year
Anti-requisite: MT3999

Description: The student will choose a project from a list published annually although a topic outwith the list may be approved. Students will be required to report regularly to their supervisor and a report of no more than 5,000 words must be submitted by the end of the April.

Assessment: Project = 100%

MT4606 Statistical Inference

Credits: 15 Semester: 2
Availability: 2009-10
Prerequisites: MT3606
Anti-requisite: MT3701, MT5701

Description: This module aims to show how the methods of estimation and hypothesis testing met in MT2004 and MT3606 can be justified and derived; to extend those methods to a wider variety of situations. The syllabus includes: comparison of point estimators; the Rao-Blackwell Theorem; distribution theory; Fisher information and the Cramér-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets.

Class Hour: 10.00 am
Teaching: Two lectures and one tutorial.
Assessment: 2 Hour Examination = 100%

MT4607 Generalized Linear Models and Data Analysis

Credits: 15 Semester: 1

Availability: 2010–11

Prerequisite: MT2004

Co-(or pre-)requisite: MT3501

Anti-requisite: MT5753

Description: This module aims to demonstrate the power and elegance of unifying a large number of simple statistical models within the general framework of the generalized linear model. It will train students in the interpretation, analysis and reporting of data, when a single response measurement is interpreted in terms of one or a number of other variables.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial and practical classes.

Assessment: Project = 20%, 2 Hour Examination = 80%

MT4608 Sampling Theory

Credits: 15 Semester: 1

Availability: 2010–11

Prerequisite: MT2004

Co-(or pre-)requisite: one of MT3501, MT3503, MT3504, MT3606 or any 3000-level MN module

Anti-requisite: MT3704

Description: The aims of this module are to introduce students to and interest them in the principles and methods of design-based inference, to convince them of the relevance and utility of the methods in a wide variety of real-world problems, and to give them experience in applying the principles and methods themselves. By the end of the module students should be able to recognise good and poor survey design and analysis, to decide upon and implement the main types of survey design in relatively straightforward settings, and analyse the resulting survey data appropriately. The syllabus includes fundamentals of design based *vs* model-based inference, simple random sampling, sampling with replacement, ratio and regression estimators, stratified sampling, cluster sampling and unequal probability sampling.

Class Hour: 100 am

Teaching: Two lectures, one tutorial and practical classes.

Assessment: Project = 15%, 2 Hour Examination = 85%

MT4609 Multivariate Analysis

Credits: 15 Semester: 2

Availability: 2010–11

Prerequisite: MT3606

Anti-requisite: MT3705, MT5705

Description: This module aims to introduce students to the ideas and techniques of multivariate statistical analysis. The syllabus includes mean vectors, covariance matrices, correlation matrices; basic properties of multivariate normal distributions; checking multivariate normality; the likelihood ratio and union-intersection principles for constructing multivariate tests; the one-sample and two-sample Hotelling's T-squared tests; tests on covariance matrices, tests of independence; linear discriminant analysis; principal components analysis; canonical correlation.

Class Hour: 11.00 am

Teaching: Two lectures, one tutorial and practical classes.

Assessment: 2 Hour Examination = 100%

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MT4613 Statistical Research in Practice

Credits: 15 Semester: Whole Year

Prerequisite: MT2004

Co-requisite: MT3606

Description: Many university statistics courses provide students with a set of tools and skills for solving well-formulated statistical problems but give them limited practice in solving unformulated real-world problems.

This module aims to develop students' ability and to solve real-world statistical problems and at the same time expose them to, and interest them in some of the real-world statistical problems currently being addressed within the Statistics Division. This will be achieved by considering a series of case-studies selected from current applied statistics problems in the Division and by using real data in at least some of these. Each case-study will present a real-world scenario and problem description together with relevant background material. With guidance from lecturers, students will work through the problems, from problem formulation, through solution for the formulated problem, to interpretation and presentation of the solution.

Class Hour: 11.00 am

Teaching: One lecture and one practical class.

Assessment: Continuous Assessment = 100%

MT5611 Advanced Symbolic Computation

Credits: 20 Semester: 2

Availability: 2010–11

Prerequisite: at least one MT4000 level module

Anti-requisite: MT4111

Description: This module aims to enable students to use Maple as a tool in their other modules and to turn naturally to such a package when solving mathematical problems. The module aims to illustrate the following points: a symbolic computation package allows one to conduct mathematical experiments; a symbolic computation package allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The machine is stupid. Intelligence comes from the user. The user thinks, the user interprets, the computer calculates. Students will undertake a more substantial project than that required for MT4111.

Class Hour: 9.00 am

Teaching: Two lectures, one tutorial

Assessment: Project = 45%, 2 Hour Examination = 55%

MT5613 Advanced Topics in the History of Mathematics

Credits: 20 Semester: 1

Prerequisites: any MT4000 module

Anti-requisite: MT4501

Description: The overall aim of the module is to give students an insight into the historical development of mathematics and an opportunity to research into one particular topic in some depth. This module is taught in parallel with MT4501.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment: Project = 66%, Two Class Tests = 34%

MT5701 Advanced Statistical Inference

Credits: 20 Semester: 2

Availability: 2009-10

Prerequisites: MT3606 and any MT4000 level module

Anti-requisite: MT4606

Description: This module consists of MT4606 with the addition of directed reading on more advanced aspects of the subject and a requirement to write a review essay on an aspect of the subject. The syllabus includes: comparison of point estimators; the Rao-Blackwell Theorem; distribution theory; Fisher information and the Cramér-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets.

Class Hour: 10.00 am

Teaching: Two lectures and one tutorial.

Assessment: Project = 25%, 2 Hour Examination = 75%

MT5751 Estimating Animal Abundance

Credits: 10 Semester: 2 (2 weeks)

Prerequisites: MT3606 and any MT4000 level module

Antirequisite: MT4535, MT5835

Description: The module will introduce students to the main types of survey method for wildlife populations. It will cover simple methods in some detail and provide students with a conceptual framework for building understanding of more advanced methods. By the end of the course, students will be able to identify an appropriate assessment method for a given population, be able to design a simple survey to assess the population, and perform simple analyses of survey data. Students will get experience in using the methods via computer practical sessions involving design and analyses of surveys conducted by computer simulation.

Class Hour: 2.00 pm

Teaching: 4 lectures, one tutorial and two practical classes each week for 2 weeks.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

MT5752 Modelling Ecological Dynamics

Credits: 20 Semester: 2 (4 weeks)

Prerequisites: at least one MT4000 level module

Anti-requisites: MT4534, MT5834

Description: This module is designed to provide practical training in the construction and use of mathematical models of ecological dynamic systems. The module will start by covering basic dynamical concepts and mathematical tools, and will then cover modelling of individuals, single species populations, interacting populations and ecosystems. At all stages students will be expected to build and analyse models, with a combination of pencil and paper and computer software.

Class Hour: 2.00 pm

Teaching: 4 lectures, one tutorial and 3 practicals each week for 4 weeks.

Assessment: Continuous Assessment = 33%, 2 Hour Examination = 67%

MT5753 Statistical Modelling

Credits: 20 Semester: 1 (4 weeks)

Prerequisites: at least one MT4000 level module

Anti-requisite: MT4607

Description: This course will introduce the main ideas of linear and generalised linear statistical modelling and will provide training in applied statistical modelling. The course structure is as follows: what statistical models are and what they are for; distributions, point and interval estimation and hypothesis testing; simple linear regression models for normal data; multiple regression; multiple regression with qualitative explanatory variables; less linear models for non-normal data; generalized linear models. Lectures will be built around the book “An Introduction to Statistical Modelling” (Krzanowski, 1998), which closely matches what we believe to be an ideal course structure.

Class Hour: 2.00 pm

Teaching: 4 lectures, one tutorial and 3 practicals each week for 4 weeks.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

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MT5757 Advanced Data Analysis

Credits: 20 Semester: 1 (4 weeks)
Prerequisites: MT4607 or MT5753

Description: This module covers modern modeling methods for situations where the data fails to meet the assumptions of common statistical models and simple remedies do not suffice. The represents a lot of real world data. Methods covered include: nonlinear models; basic splines & Generalized Additive Models; Ridge Regression and Principal Components Regression; models for non-independent errors. Pragmatic data imputation is covered with associated issues. Computer intensive inference is considered throughout. Practical applications build sought-after skills in the commercial packages SAS and SPSS.

Class Hour: 2.00 pm
Teaching: Lectures, tutorials and practicals.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

MT5758 Applied Multivariate Analysis

Credits: 15 Semester: 2
Anti-requisites: MT4609, MT5705

Prerequisites: Acceptance on to MMath Statistics or MMath Mathematics programmes.

Description: This module provides introductory and advanced training in the applied analysis of multivariate data. The module emphasis is upon practical analysis of data and the extraction of answers from real-life data. Basic theory is given covering matrix algebra, metrics and general measures of similarity. The most common and fundamental methods including dimension reduction and classification are covered e.g. Multivariate Analysis of Variance, Principal Components Analysis, multidimensional scaling, Factor Analysis, clustering methods. The practical component of the module focuses on analysis of real data using the commercial software tools Excel, SAS and SPSS.

Class Hour: 12.00 noon
Teaching: Lectures, tutorials and practicals.
Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

MT5759 Knowledge Discovery and Datamining

Credits: 15 Semester: 2
Prerequisites: Acceptance on to MMath Statistics or MMath Mathematics programmes.

Description: Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterize network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches.

This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms & optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.

Class Hour: 10.00 am
Teaching: Lectures, tutorials and practicals.
Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

MT5802 Advanced Analytical Techniques

Credits: 20 Semester: 2
Prerequisite: MT3503

Description: This module introduces students to some further important applied analytic techniques such as Variational Calculus, Integral equations and transforms, and the theory of Steepest Descent.

Class Hour: 12.00 noon
Teaching: Two lectures and one tutorial.
Assessment: Two-and-a-half Hour Examination = 100%

MT5806 Advanced Computational Techniques

Credits: 20 Semester: 2

Prerequisite: MT3802 and MT4112

Anti-requisite: MT4506

Description: This module introduces students to some of the ideas, techniques and constraints that underpin modern approaches to the numerical modelling of physical processes that may be described by partial differential equations. Students will gain expertise in implementing standard methods and will submit a short dissertation together with a portfolio of computational work.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Project = 25%, 2 Hour Examination = 75%

MT5809 Advanced Fluid Dynamics

Credits: 20 Semester: 1

Prerequisite: MT4509

Description: This module will examine current research in fluid dynamics, with a particular focus on meteorology and oceanography. The large-scale atmosphere and oceans behave quite unlike a 'classical' fluid owing to the presence of stable density stratification and rotation. As a result, the fluid motion is dominated by slow, 'vortical' or eddying motions (like cyclones) which generally spin slower than the Earth. Superimposed on this slow motion are relatively fast wave-like motions analogous to surface waves on a pond. These lectures describe the mathematical basis of these fundamentally different types of motion, and furthermore illustrate the increasingly important role of computer modelling in this research.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: Two-and-a-half Hour Examination = 100%

MT5810 Advanced Solar Theory

Credits: 20 Semester: 1

Prerequisite: MT4510

Anti-requisites: MT4504, MT5804

Description: The object of this module is to describe the magnetohydrodynamic processes at work in the Sun, using modern techniques of applied mathematics, and to discuss the latest theories in relation to aspects of current research within the School.

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Two-and-a-half Examination = 100%

MT5812 Global Capital Markets - Structured Derivatives, Analytics and Applications

Credits: 20 Semester: Either

Prerequisite: MT4551

Co-requisite: EC5705

Description: The Global Capital Markets divisions of Investment Banks are now a significant employer of highly numerate graduates who have a rigorous training in both Economics and Mathematics. This module will provide a practical introduction to the theory and applications of the various different types of structured derivatives that currently exist across all the asset classes that constitute Capital Markets. Detailed examples of both the applications as well as the dynamics, valuation and risk-management of 'vanilla' and 'exotic' Interest Rate, Equity, Credit, FX and Commodity structured derivatives will be discussed and analysed.

The focus will be practical and there will be a bias towards developing a strong intuition through discussing and analyzing such questions as 'Why do structured derivatives exist?', 'Who are the participants (e.g. Asset Managers, Pension Funds, Hedge Funds, etc) in this market?', 'How are these structured derivatives valued, risk-managed and traded?', 'What type of models are used in their valuation?', 'What assumptions underlie the models and when do the assumptions break down?' to finally 'How do Banks make money from structured derivatives?' and 'How are the models actually used on the trading desks of Investment Banks?'

Class Hour: 12.00 noon

Teaching: Two lectures and one tutorial.

Assessment: Continuous Assessment = 60%, 2 Hour Examination = 40%

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MT5823 Semigroups

Credits:	20	Semester:	2
Availability:	2009–10		
Prerequisites:	MT4003 (or MT4603) or MT4517		
Anti-requisite:	MT4523		
Description:	The general aim of this module is to introduce students to semigroup theory, which is the study of sets with one associative binary operation defined on them. In the process, the common aims and concerns of abstract algebra will be emphasised and illustrated by drawing comparisons between semigroups, groups and rings.		
Class Hour:	9.00 am		
Teaching:	Two lectures and one tutorial.		
Assessment:	Continuous Assessment = 25%, 2 Hour Examination = 75%		

MT5824 Topics in Groups

Credits:	20	Semester:	1
Prerequisite:	MT4003 (or MT4603)		
Description:	The overall aim of this module is to build on the foundations established in MT4003/MT4603, and take the students further into this important and beautiful branch of mathematics. More specifically, through a selection of topics, some of which will be of current research interest in St Andrews, it will introduce students to advanced techniques of handling groups and classifying them.		
Class Hour:	10.00 am		
Teaching:	Two lectures and one tutorial.		
Assessment:	Two-and-a-half Hour Examination = 100%		

MT5825 Measure and Ergodic Theory

Credits:	20	Semester:	1
Prerequisite:	MT4004 (or MT4604)		
Anti-requisite:	MT4525		
Description:	This module introduces some of the powerful techniques and ideas of modern mathematical analysis that are important both in analysis in its own right and in its many applications in mathematics and science. The module will include topics such as: measure theory, the ergodic theorem, martingale theory. Analysis is one of the active research areas within the School, and the choice of topics will reflect current activity.		
Class Hour:	10.00 am		
Teaching:	Two lectures and one tutorial.		
Assessment:	Project =25%, 2 Hour Examination = 75%		

MT5826 Finite Fields

Credits:	20	Semester:	2
Availability:	2009-10		
Prerequisite:	MT4516 or MT4517		
Description:	Fields are an important part of modern algebra. Introduced as a generalization of number systems (in particular the rational and the real numbers), fields are the setting for some of the most fascinating results in pure maths, such as the insolubility of the quintic, and ruler and compass constructions. The theory of finite fields came to prominence in the last 50 years due to its applications in combinatorics, coding theory and cryptography. This module will begin by investigating the theory of fields in general, before specializing to finite fields in particular. Applications of field theory, to topics such as geometry and finite mathematics, will also be explored.		
Class Hour:	11.00 am		
Teaching:	Two lectures and one tutorial.		
Assessment:	Two-and-a-half Hour Examination = 100%		

MT5827 Lie Algebras

Credits: 20 Semester: 2

Availability: 2010–11

Prerequisite: MT3501 and (MT4003/MT4603 or MT4517)

Description: The aim of this module is to classify the semi-simple Lie algebras over an algebraically closed field. Lie algebra has important applications to theoretical physics and is used in the classification of finite simple groups.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial.

Assessment: Two-and-a-half Hour Examination = 100%

MT5828 Hyperbolic Geometry

Credits: 20 Semester: 2

Availability: 2010–11

Prerequisite: MT4004 (or MT4604)

Description: This module introduces some of the techniques and ideas of hyperbolic geometry including Fuchsian groups, Kleinian groups, Riemann surfaces, fractal geometry.

Class Hour: 9.00 am

Teaching: Two lectures and one tutorial.

Assessment: Two-and-a-half Hour Examination = 100%

MT5829 Group Rings

Credits: 20 Semester: 2

Programme(s): Optional module for all Postgraduate Taught Programmes within the School of Mathematics & Statistics.

Description: Group rings were introduced as a tool in the representation theory of groups, and then they became objects of independent study. A group ring combines a group and a ring, so it is natural to ask how the properties of the ring and the group determine the properties of the group ring, and vice versa. The main directions of current researches in group ring theory are their ring and Lie properties, the structure of the unit group and the isomorphism problem. After a revision of necessary facts from group theory and ring theory, we will give classical results in each of these four areas; we will also point out some very recent results and open questions.

Class Hour: 2.00 pm

Teaching: Two or three lectures and one tutorial.

Assessment: Two-and-a-half Hour Examination = 100%

MT5831 Advanced Bayesian Inference

Credits: 20 Semester: 2

Availability: 2010–11

Prerequisite: MT3606

Anti-requisite: MT4531

Description: This module consists of MT4531 with an additional project which will give consideration to some more advanced aspects of the theory or to the application of Bayesian techniques. This may involve either directed reading or the use of the computer for simulation or data-based analyses. The syllabus includes Bayes' theorem, inference for Normal samples; univariate Normal linear regression; principles of Bayesian computational, Markov chain Monte Carlo – theory and applications.

Class Hour: 11.00 am

Teaching: Two lectures and one tutorial and practical classes.

Assessment: Project = 40%, 2 Hour Examination = 60%

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MT5990 Independent Study module

Credits: 20 Semester: Either

Prerequisite: Permission of the Head of School

Description: This module provides the opportunity for a student to study an Advanced topic as a reading course under the supervision of a member of staff. The topic will be disjoint from those available in other modules.

Assessment: Two-and-a-half Hour Examination = 100%

MT5991 Professional Skills for Mathematical Scientists

Credits: 30 Semester: Whole Year

Programme(s): Graduate Diplomas in Mathematics or, exceptionally, final year of M.Math. programme with the approval of the Head of School.

Description: This module encompasses a range of skills, both generic and topic specific, together with taught components aimed at providing an appreciation of both breadth and depth of research areas in Pure or Applied Mathematics. The precise programme of study, together with the identification of the relevant software expertise required, will be determined in consultation with the student's supervisor.

Class Hour: To be arranged.

Teaching: Lectures, Tutorials and Practical classes

Assessment: Continuous Assessment = 100%

MT5999 Advanced Project in Mathematics/Statistics

Credits: 40 Semester: Whole Year

Prerequisite: Entry to an M.Phys. or M.Math. programme

Description: This is a more substantial project which, for M.Math. students, will replace the existing Honours project. The project will be chosen from an approved list of topics. The student will be required to investigate a topic in some depth, submit a report by the end of April and give a presentation.

Assessment: Project = 100%

School of Modern Languages

Including: French, German, Italian, Linguistics, Russian and Spanish

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad (see page 1.3).

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): French</p> <p>Available also as a degree 'With Integrated Year Abroad' (see page 18.1).</p>	<p>Single Honours French:</p> <p>Level 1: 40 credits, to comprise FR1001, FR1002.</p> <p>Level 2: 60 credits, to comprise FR2031 and a pass at 11 or better in FR2032.</p> <p>Level 3 and Level 4: At least 210 credits, to comprise FR3001, FR3002, FR4105 and FR4106, and other credits sufficient to meet the total credit requirement from FR3013-FR3139, FR4078-FR4199. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>Students may, with permission of both Heads of School, substitute, by means of 'dip-across', 30 3000-level or 4000-level credits in another School for 30 3000-level or 4000-level credits in the School of Modern Languages.</p> <p>One year may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): French and Ancient History, Arabic, Art History, Biblical Studies, Classical Studies, Classics, English, Film Studies, Geography, German[^], Greek, Hebrew, International Relations, Italian[^], Latin, Management, Mediaeval History, Modern History, Philosophy, Psychology, Russian[^], Social Anthropology, Spanish[^], Theological Studies.</p> <p>All the above are available also as degrees ‘With Integrated Year Abroad’ (see page 18.1).</p> <p>[^] see Other information in right hand column.</p>	<p>French Element of Joint Honours M.A. Degrees:</p> <p>Level 1: 40 credits, to comprise FR1001, FR1002.</p> <p>Level 2: For all programmes except French and Classics, 60 credits, to comprise FR2031 and a pass at 11 or better in FR2032.</p> <p>For French and Classics, 40 credits, to comprise FR2021 and a pass at 11 or better in FR2022.</p> <p>Level 3 and Level 4: In French 120 credits, to comprise FR3001, FR4105 and FR4106, and other credits sufficient to meet the total credit requirement from FR3002-FR3139, FR4078-FR4199.</p> <p>^Other information: In all two language degrees marked with [^] the full 240 3000-level and 4000-level credits must be taken from the two languages concerned. An equal distribution of credits between the two languages is desired, but a minimum of 90 and a maximum of 150 credits may be chosen from either language; FR4103 and FR4104 are normally available to students having taken at least 60 credits of French in the first year of the Honours programme. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>In all other Joint degrees 120 3000-level and 4000-level credits in French are required. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>Subject to the approval of any other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>
<p>(M.A. Honours): French with Linguistics</p> <p>Available also as a degree ‘With Integrated Year Abroad’ (see page 18.1).</p> <p>Not available to entrants from 2009-10</p>	<p>French Major Element of M.A. Degree:</p> <p>Level 1: 40 credits, to comprise FR1001, FR1002.</p> <p>Level 2: 60 credits, to comprise FR2031 and a pass at 11 or better in FR2032.</p> <p>Level 3 and Level 4: 180 credits, to comprise FR3001, FR3002, FR4105 and FR4106, and other credits sufficient to meet the total credit requirement from FR3013-FR3139, FR4078-FR4199.</p> <p>In total 240 credits must be achieved at 3000 level and 4000 level with at least 90 credits in 4000-level modules.</p> <p>One year may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Chemistry, Computer Science, Economics, Geography, Geoscience, Management, Mathematics, Physics, Psychology, or Statistics with French.</p> <p>All the above are available also as degrees 'With Integrated Year Abroad' (see page 18.1). Not available to entrants from 2008-09 Biology with French is now available again.</p>	<p>French Minor Element of B.Sc. Degrees:</p> <p>Level 1: Either 40 credits, to comprise FR1011 or equivalent, FR1012, or, for suitably qualified students, 20 credits, to comprise FR1012.</p> <p>Level 2: 40 credits to comprise FR2015, and a pass at 11 or better in FR2016.</p> <p>Level 3 and Level 4: 60 credits, to comprise either (a) FR3805, FR3806, FR4807, FR4808, or (b), for those spending a semester abroad on a work placement, 45 credits from FR3805, FR3806, FR4807 or FR4808, and 15 credits from FR3809 or FR4809.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>If arranged in a francophone country by the School of the Major subject, one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>
<p>(B.Sc. Honours): Biology with French With Integrated Year Abroad</p>	<p>Biology & French elements of Major Degree with French:</p> <p>Level 1: Biology Element: At least 40 credits comprising passes in BL1001 and BL1201.</p> <p>French Element: 40 credits comprising passes in FR1001 and FR1002.</p> <p>Level 2: Biology Element EITHER:</p> <p>60 credits comprising passes at grade 11 or better in two of BL2101, BL2102, BL2104 or BL2105; and 20 credits from SD1001 or ID2003 and ID2004</p> <p>OR</p> <p>90 credits comprising passes in three of BL2101, BL2102, BL2104 or BL2105, at least two of which are at grade 11 or better.</p> <p>French Element: 40 credits comprising a pass in FR2021 and a pass at grade 11 or better in FR2022.</p> <p>Year Abroad: 60 credits comprising FR3101</p> <p>Level 3: 90 credits from 3000-level BL modules and 30 credits comprising FR3001 and FR3002.</p> <p>Level 4: 90 credits comprising (BL4201 and two modules) OR (BL4200 and three modules) and 30 credits comprising FR4105 and FR4106.</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Three-Language degrees: French-German-Italian French-German-Russian French-German-Spanish French-Italian-Russian French-Italian-Spanish French-Russian-Spanish</p> <p>All the above are available also as degrees 'With Integrated Year Abroad' (see page 18.1).</p>	<p>French Element of Three-Language M.A. Degrees: Level 1: 40 credits, to comprise FR1001, FR1002. Level 2: 40 credits, to comprise FR2021 and a pass at 11 or better in FR2022. Level 3 and Level 4: In French at least 60 credits, to comprise FR3001, FR4105 and FR4106, and other credits sufficient to meet the total credit requirement from FR3002-FR3139, FR4078-FR4199. Other information: The full 240 3000-level and 4000-level credits must be taken from the three languages concerned, but a minimum of 60 and a maximum of 120 credits may be chosen from each language; FR4103 is only available to students taking at least 45 other French credits in the first year of the Honours programme, and FR4104 to students taking at least 60 other French credits in the first year of the Honours programme. In total at least 90 credits must be achieved in 4000-level modules. One year may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>
<p>(M.A. Honours): Two languages (French and one of German, Italian, Russian, Spanish) with a third subject (English, International Relations, Linguistics*, Management)</p> <p>All the above are available also as degrees 'With Integrated Year Abroad' (see page 18.1).</p> <p>* (and WIYA) Not available to entrants from 2009-10</p>	<p>French Element of Two Languages with a third subject M.A. Degrees: Level 1: 40 credits, to comprise FR1001, FR1002. Level 2: 40 credits, to comprise FR2021 and a pass at 11 or better in FR2022. Level 3 and Level 4: In French at least 60 credits, to comprise FR3001, FR4105 and FR4106, and other credits sufficient to meet the total credit requirement from FR3002-FR3139, FR4078-FR4199. Other information: At least 150 3000-level and 4000-level credits must be taken from the two languages combined in that degree, with a minimum of 60 and a maximum of 90 credits from each language. In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules. Subject to the approval of any other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>
<p>(M.A. Honours): German</p> <p>Available also as a degree 'With Integrated Year Abroad' (see page 18.1)</p>	<p>Single Honours German: Level 1: 40 credits in 1000-level GM modules Level 2: 60 credits comprising either (a) GM2001 and a pass at 11 or better in GM2002, or (b) GM2009 and a pass at 11 or better in GM2010. Level 3 and Level 4: In German at least 210 credits, to comprise GM3005, GM3006, GM4007, GM4105, GM4106, and other credits sufficient to meet the total credit requirement from GM3051 – GM4099. In total at least 90 credits must be achieved in 4000-level modules. Students may, with permission of both Heads of School, substitute, by means of 'dip-across', 30 3000-level or 4000-level credits in another school for 30 3000-level or 4000-level credits in the School of Modern Languages. One year may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): German and Ancient History, Arabic, Art History, Biblical Studies*, Economics, English, Film Studies, French^, International Relations, Italian^, Management, Mediaeval History, Middle East Studies, Modern History, New Testament, Philosophy, Psychology, Russian^, Social Anthropology, Spanish^, Theological Studies.</p> <p>*Timetable clash exists, therefore combination subject to arrangement by both Schools</p> <p>^ see Other information in right hand column</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees. (see page 18.1)</p>	<p>German Element of Joint M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level GM modules</p> <p>Level 2: 60 credits comprising either (a) GM2001 and a pass at 11 or better in GM2002, or (b) GM2009 and a pass at 11 or better in GM2010.</p> <p>Level 3 and Level 4: In German 120 credits, to comprise GM3005, GM3006, GM4105, and normally GM4106, and other credits sufficient to meet the total credit requirement from GM3051 – GM4099. At least 90 credits across the two languages or two subjects must be achieved in 4000-level modules.</p> <p>^Other information: In all two language degrees marked with ^ the full 240 3000-level and 4000-level credits must be taken from the two languages concerned. An equal distribution of credits between the two languages is desired, but a minimum of 90 and a maximum of 150 credits may be chosen from either language. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>In all other Joint M.A. degrees 120 3000-level and 4000-level credits in German are required, except in the case of German and Psychology where a minimum of 90 credits from German is required.</p> <p>Subject to the approval of any other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Three-Language degrees: German-French-Italian German-French-Russian German-French-Spanish German-Italian-Russian German-Italian-Spanish German-Russian-Spanish.</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p>	<p>German Element of Three-Language M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level GM modules</p> <p>Level 2: 40 credits comprising either (a) passes at 11 or better in one of GM2001 or GM2002 and in one of GM2003 or GM2004, or (b) passes at 11 or better in one of GM2009 or GM2010 and in one of GM2007 or GM2008.</p> <p>Level 3 and Level 4: In German, at least 60 credits, to include GM3005, GM3006, GM4105, and normally GM4106.</p> <p>Other information The full 240 3000-level and 4000-level credits must be taken from the three languages concerned, but a minimum of 60 and a maximum of 120 credits may be chosen from each language. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Two languages (German and one of French, Italian, Russian, Spanish)</p> <p>with a third subject (English, International Relations, Management)</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p>	<p>German Element of Two Languages with a third subject M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level GM modules</p> <p>Level 2: 40 credits comprising either (a) passes at 11 or better in one of GM2001 or GM2002 and in one of GM2003 or GM2004, or (b) passes at 11 or better in one of GM2009 or GM2010 and in one of GM2007 or GM2008.</p> <p>Level 3 and Level 4: In German, at least 60 credits, to include GM3005, GM3006, GM4105, and normally GM4106. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>Other information: At least 150 3000-level and 4000-level credits must be taken from the two languages combined in that degree, with a minimum of 60 and a maximum of 90 credits from each language.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Economics with German</p> <p>Available also as a degree 'With Integrated Year Abroad' (see page 18.1).</p>	<p>German Minor Element in M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level GM modules</p> <p>Level 2: 40 credits comprising either (a) passes at 11 or better in one of GM2001 or GM2002 and in one of GM2003 or GM2004, or (b) passes at 11 or better in one of GM2009 or GM2010 and in one of GM2007 or GM2008.</p> <p>Level 3 and Level 4: In German, 60 credits, comprising GM3005, GM3006, GM4105, and normally GM4106. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p>
<p>(B.Sc. Honours): Biology, Chemistry, Computer Science, Internet Computer Science, Mathematics, Statistics with German</p> <p>All the above are available also as degrees 'with Integrated Year Abroad' (see page 18.1)</p> <p>Not available to entrants from 2008-09</p>	<p>German Minor Element in B.Sc. Degrees:</p> <p>Level 1: 40 credits in 1000-level GM modules for Scientists</p> <p>Level 2: 40 credits to include a pass at 11 or better in GM2016 or GM2036</p> <p>Level 3 and Level 4: In German, 60 credits, comprising GM3005, GM3006, GM4105, and normally GM4106. Students spending a semester abroad may substitute GM4801 for any one of these modules. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Italian</p> <p>Available also as a degree 'With Integrated Year Abroad' (see page 18.1)</p>	<p>Single Honours Italian: Level 1: 40 credits in 1000-level IT modules.</p> <p>Level 2: 40 credits comprising IT2001 and a pass at 11 or better in IT2002.</p> <p>Level 3 and Level 4: In Italian at least 210 credits, of which at least 90 credits must be achieved in 4000-level modules. The following modules must be taken: IT3001, IT3002, IT4003, IT4004, and either IT4098 or IT4099.</p> <p>Students may, with permission of both Heads of School, substitute, by means of 'dip-across', 30 Level 3 or 4 credits in another School for 30 Level 3 or 4 credits in the School of Modern Languages.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Italian and Ancient History, Arabic, Art History, Classical Studies, Classics, Economics, English, Film Studies, French[^], Geography, German[^], Greek, International Relations, Latin, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology (WIYA only), Russian[^], Scottish History, Social Anthropology, Spanish[^].</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p> <p>[^] see Other information in right hand column</p>	<p>Italian Element of Joint M.A. Degrees: Level 1: 40 credits in 1000-level IT modules.</p> <p>Level 2: 40 credits comprising IT2001 and a pass at 11 or better in IT2002.</p> <p>Level 3 and Level 4: In Italian at least 120 credits, of which at least 45 credits must be achieved in 4000-level modules. The following modules must be taken: IT3001, IT3002, IT4003, and IT4004. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>[^]Other information: In the two language degrees marked with [^] the full 240 3000-level and 4000-level credits must be taken from the two languages concerned. An equal distribution of credits between the two languages is desired, but a minimum of 90 and a maximum of 150 credits may be chosen from either language. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>In all other Joint M.A. degrees 120 3000-level and 4000-level credits in Italian are required. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Three-Language degrees: Italian-French-German Italian-French-Russian Italian-French-Spanish Italian-German-Russian Italian-German-Spanish Italian-Russian-Spanish</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p>	<p>Italian Element of Three-Language M.A. Degrees: Level 1: 40 credits in 1000-level IT modules.</p> <p>Level 2: 40 credits comprising IT2001 and a pass at 11 or better in IT2002.</p> <p>Level 3 and Level 4: In Italian at least 60 credits, of which at least 30 credits must be achieved in 4000-level modules. The following modules must be taken: IT3001, IT3002, IT4003, and IT4004.</p> <p>Other information: The full 240 3000-level and 4000-level credits must be taken from the three languages concerned, but a minimum of 60 and a maximum of 120 credits may be chosen from each language. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Two languages (Italian and one of French, German, Russian, Spanish) with a third subject (English, International Relations, Management)</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p>	<p>Italian Element of Two Languages and a third subject M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level IT modules.</p> <p>Level 2: 40 credits comprising IT2001 and a pass at 11 or better in IT2002.</p> <p>Level 3 and Level 4: In Italian at least 60 credits, of which at least 30 credits must be achieved in 4000-level modules. The following modules must be taken: IT3001, IT3002, IT4003, and IT4004.</p> <p>Other information: At least 150 3000-level and 4000-level credits must be taken from the two languages combined in that degree, with a minimum of 60 and a maximum of 90 credits from each language.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): English^w, French^w, German^w, Italian^w, Psychology, Russian^w, Social Anthropology, Spanish^w with Linguistics</p> <p>^w available also as 'With Integrated Year Abroad Degrees' (see page 18.1). None of these programmes available to entrants from 2009-10</p>	<p>Linguistics Minor Element of M.A. Degrees:</p> <p>Level 1: 40 credits, to comprise either LI1001, LI1002, or, with the approval of the Head of the School of Modern Languages, 40 credits of other 1000-level modules.</p> <p>Level 2: 40 credits, to comprise LI2001 and a pass at 11 or better in LI2002.</p> <p>Level 3 and Level 4: 60 credits, to comprise LI3001 (or, for qualified students, one of FR3053, GM3080, IT3009, ML3009, RU3015, RU3107, SP3011, provided it is not being taken for the Major subject of the degree) and 45 credits from LI3002, LI4001, LI4002, LI4098</p> <p>In total 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>Subject to the approval of any other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>
<p>(M.A. Honours): Two languages (French, German, Italian, Russian, Spanish) with Linguistics</p> <p>Available also as a degree 'With Integrated Year Abroad' (see page 18.1). None of these programmes available to entrants from 2009-10</p>	<p>Linguistics Minor Element of Two languages with Linguistics M.A. Degree:</p> <p>Level 1: 40 credits, to comprise either LI1001, LI1002, or, with the approval of the Head of the School of Modern Languages, 40 credits of other 1000-level modules.</p> <p>Level 2: 40 credits, to comprise LI2001 and a pass at 11 or better in LI2002.</p> <p>Level 3 and Level 4: 60 credits, to comprise LI3001 (or, for qualified students, one of FR3053, GM3080, IT3009, ML3009, RU3015, RU3107, SP3011, provided it is not being taken for another subject of the degree) and 45 credits from LI3002, LI4001, LI4002, LI4098.</p> <p>In total 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Russian</p> <p>Available also as a degree 'With Integrated Year Abroad' (see page 18.1)</p>	<p>Single Honours Russian:</p> <p>Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: 60 credits to comprise either (a) RU2003 and a pass at 11 or better in RU2004, or (b) RU2005 and a pass at 11 or better in RU2006.</p> <p>Level 3 and Level 4: In Russian at least 210 credits, to include either (a) RU3001, RU3002, RU4101, RU4104, RU4199, at least 45 credits from RU3011, RU3014, RU3015, RU3107 and RU4108, and at least 45 credits from RU3021-RU3030, RU4042 and RU4128, or (b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, RU3001, RU3102, RU4101, RU4104, RU4199, at least 30 credits from RU3011, RU3014, RU3015, RU3107 and RU4108, and at least 30 credits from RU3021-RU3030, RU4042 and RU4128. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>Students may, with permission of both Heads of School, substitute, by means of 'dip-across', 30 3000-level or 4000-level credits in another school for 30 3000-level or 4000-level credits in the School of Modern Languages.</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Two-Language degrees: Russian and French, German, Italian, Spanish</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>	<p>Russian element of Two-Language M.A. degrees:</p> <p>Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: 60 credits to comprise either RU2003 and a pass at 11 or better in RU2004, or RU2005 and a pass at 11 or better in RU2006.</p> <p>Level 3 and Level 4: Either (a) at least 90 credits, to include RU3001, RU3002, RU4101, RU4104, 15 credits from RU3011, RU3014, RU3015, RU3107 and RU4108, 15 credits from RU3021-RU3030, RU4042 and RU4128 (b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, 165 credits comprising RU3001, RU3102, RU4101, RU4104, 15 credits from RU3011, RU3014, RU3015, RU3107 and RU4108, 15 credits from RU3021-RU3030, RU4042 and RU4128</p> <p>Other information: In all two language degrees marked with ^ the full 240 3000-level and 4000-level credits must be taken from the two languages concerned. An equal distribution of credits between the two languages is desired, but a minimum of 90 and a maximum of 150 credits may be chosen from either language. In total at least 90 credits must be achieved in 4000-level modules.</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Joint M.A. degrees Russian and Art History, Economics, English*, Film Studies, Hebrew, International Relations, Latin, Management**, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Scottish History, Social Anthropology.</p> <p>All the above are also as 'With Integrated Year Abroad' degrees (see page 18.1)</p> <p>* Timetable clash means that 2000-level English must be taken in the first year to do this combination.</p> <p>** Timetable clash exists, therefore combination subject to arrangement by both Schools.</p>	<p>Russian element of Joint M.A. degrees: Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: 60 credits to comprise either RU2003 and a pass at 11 or better in RU2004, or RU2005 and a pass at 11 or better in RU2006.</p> <p>Level 3 and Level 4: At least 120 credits, to include EITHER (a) RU3001, RU3002, RU4101, RU4104, 15 credits from RU3011, RU3014, RU3015, RU3107 and RU4108, 15 credits from RU3021-RU3030, RU4042 and RU4128, and a further 30 credits from RU3011 - RU4198 or (b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, 120 credits comprising RU3001, RU3102, RU4101, RU4104, and 15 credits from RU3011-RU4198.</p> <p>Other information: In all Joint Honours degrees the full 120 3000-level or 4000-level credits must be taken in Russian.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Three-Language degrees: Russian-French-German Russian-French-Italian Russian-French-Spanish Russian-German-Italian Russian-German-Spanish Russian-Italian-Spanish</p> <p>All the above are available also as 'With Integrated Year Abroad' degrees (see page 18.1)</p>	<p>Russian element of Three-Language degrees: Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: At least 40 credits to comprise (beginners) either RU2001, or RU2003 or RU2110 and a pass at 11 or better in respectively RU2002, RU2109 or RU2004: or (non-beginners) either RU2105 or RU2005 or RU2108 and a pass at 11 or better in respectively RU2106 or RU2107 or RU2006</p> <p>Level 3 and Level 4: Either (a) at least 60 credits, to include RU3001, RU3002, RU4101, at least 15 credits from RU3011-RU3015, RU3021-RU3042, RU3107, RU4042, RU4108, RU4128 or (b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, 105 credits, to include RU3001, RU3102, RU4101, and a further 15 credits from RU3011-RU3015, RU3021 - RU3042, RU3107, RU4042, RU4108, RU4128.</p> <p>Other information: The full 240 3000-level and 4000-level credits must be taken from the three languages concerned, but a minimum of 60 and a maximum of 120 credits may be chosen from each language. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Two Languages (Russian and one of French, German, Italian, Spanish)</p> <p>with a third subject (English, International Relations, Linguistics*, Management)</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees (see page 18.1)</p> <p>*(And WIYA) Not available to entrants from 2009-10</p>	<p>Russian element of Two Languages and a third subject M.A. Degrees: Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: At least 40 credits to include (beginners) either RU2001, or RU2003 or RU2110 and a pass at 11 or better in respectively RU2002, RU2109 or RU2004: or (non-beginners) either RU2105 or RU2005 or RU2108 and a pass at 11 or better in respectively RU2106 or RU2107 or RU2006</p> <p>Level 3 and Level 4: Either (a) at least 60 credits, to include RU3001, RU3002, RU4101, and at least 15 credits from RU3011-RU3015, RU3021-RU3042, RU3107, RU4042, RU4108, RU4128, or (b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, 105 credits, to include RU3001, RU3102, RU4101, and a further 15 credits from RU3011-RU3015, RU3021 - RU3042, RU3107, RU4042, RU4108, RU4128.</p> <p>Other information: At least 150 3000-level and 4000-level credits must be taken from the two languages combined in that degree, with a minimum of 60 and a maximum of 90 credits from each language.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules. One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Russian with Geography</p> <p>Available also as a 'With Integrated Year Abroad' degree (see page 18.1)</p>	<p>Russian element of Major M.A. Degree: Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: 60 credits to comprise either RU2003 and a pass at 11 or better in RU2004, or RU2005 and a pass at 11 or better in RU2006.</p> <p>Level 3 and Level 4: 150 credits, to include either a) RU3001, RU3002, RU4101, RU4104, RU4199, at least 15 credits from RU3011, RU3014, RU3015, RU3107, and RU4108, and at least 15 credits from RU3021-RU3030, RU4042 and RU4128, or b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, RU3001, R3102, RU4101, RU4104, RU4199.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Russian with Linguistics</p> <p>Available also as a 'With Integrated Year Abroad' degree (see page 18.1)</p> <p>Not available to entrants from 2009-10</p>	<p>Russian element of Major M.A. Degree: Level 1: 40 credits in First Level Russian modules</p> <p>Level 2: 60 credits to comprise either RU2003 and a pass at 11 or better in RU2004, or RU2005 and a pass at 11 or better in RU2006.</p> <p>Level 3 and Level 4: In Russian, at least 180 credits, to include either (a) RU3001, RU3002, RU4101, RU4104, RU4199, either RU3015 or RU3107, 15 credits from RU3021-RU3030, 30 credits from RU3011-RU3107, and 30 credits from RU4042, RU4106, RU4108 and RU4128, or (b) for those spending one semester of the first year of the Honours programme on an approved course of study in a Russian-speaking environment, RU3001, R3102, RU4101, RU4104, RU4199, 15 credits from RU3015-RU3107, and a further 30 credits from RU4042, RU4106, RU4108 and RU4128.</p> <p>In total 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.</p> <p>One semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Economics, Mathematics with Russian</p> <p>(B.Sc. Honours)*: Computer Science, Economics, Internet Computer Science, Mathematics with Russian</p> <p>*Not available to entrants from 2008-09</p> <p>All the above are available also as 'With Integrated Year Abroad Degrees' (see page 18.1).</p>	<p>Russian Minor element of M.A. or B.Sc. Degree: Level 1: 40 credits in 1000-level RU modules</p> <p>Level 2: At least 40 credits to include either RU2001, or RU2003, or RU2005, and a pass at 11 or better in RU2002, or RU2004, or RU2006.</p> <p>Level 3 and Level 4: 60 credits, to include RU3001, RU3002, RU4101, and 15 credits from RU3011-RU4128.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>Subject to the approval of any other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1).</p>
<p>(M.A. Honours): Spanish</p> <p>Available also as a 'With Integrated Year Abroad' degree (see page 18.1)</p>	<p>Single Honours Spanish: Level 1: 40 credits in 1000-level SP modules</p> <p>Level 2: 60 credits comprising SP2001 or SP2005 and a pass at 11 or better in SP2002.</p> <p>Level 3 and Level 4: At least 210 credits, to include SP3201, SP3202, SP4203 or SP4103 (or SP4102 with SP4099 as co-requisite), SP4204, one or more from SP3006 to SP3011 or SP4008, and one of SP4098 or SP4099, with the remaining credits from the modules available in the particular calendar year. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>Students may, with permission of both Heads of School, substitute, by means of 'dip-across', 30 3000-level or 4000-level credits in another school for 30 3000-level or 4000-level credits in the School of Modern Languages.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Spanish and Ancient History, Arabic, Art History, Economics, English, Film Studies, French[^], Geography, German[^], Greek, International Relations, Italian[^], Latin, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History*, Philosophy, Russian[^], Scottish History, Social Anthropology*, Theological Studies.</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees (see page 18.1)</p> <p>*Timetable clash: combination subject to arrangements with both Departments.</p> <p>[^]see Other information in the right hand column.</p>	<p>Spanish element of Joint M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules.</p> <p>Level 2: 60 credits comprising SP2001 or SP2005 and a pass at 11 or better in SP2002.</p> <p>Level 3 and Level 4: In Spanish 120 credits, SP3201, SP3202, SP4203 or SP4103 (or SP4102 with SP4099 as co-requisite), SP4204, and further credits may be taken from remaining modules available in the particular calendar year.</p> <p>[^]Other information: In all two language degrees marked with [^] the full 240 3000-level or 4000-level credits must be taken from the two languages concerned. An equal distribution of credits between the two languages is desired, but a minimum of 90 and a maximum of 150 credits may be chosen from either language. Students taking less than 120 credits in Spanish can substitute some of SP3001 for SP3201, SP3002 for SP3202, SP4003 for (SP4103 or SP4203) or SP4004 for SP4204. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>In all other Joint M.A. degrees 120 3000-level or 4000-level credits in Spanish are required. In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or one semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Spanish and Classics</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees (see page 18.1)</p> <p>[^]see Other information in the right hand column.</p>	<p>Spanish element of Joint Spanish - Classics M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules, either SP1001 and SP1002 or <i>ab initio</i> SP1003 and SP1004.</p> <p>Level 2: 60 credits comprising a pass at 11 or better in two of SP2001 or SP2005 and SP2004; or a pass at 11 or better in both SP2002 and SP2003.</p> <p>Level 3 and Level 4: In Spanish 120 credits, SP3201, SP3202, SP4203 or SP4204.</p> <p>[^]Other information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Three-Language degrees: Spanish-French-German Spanish-French-Italian Spanish-French-Russian Spanish-German-Italian Spanish-German-Russian Spanish-Italian-Russian</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees (see page 18.1)</p>	<p>Spanish element of Three-Language M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules.</p> <p>Level 2: 40 credits comprising a pass at 11 or better in two of SP2001 or SP2005 and SP2004; or a pass at 11 or better in both SP2003 and SP2002.</p> <p>Level 3 and Level 4: SP3001, SP3002, SP4003 or SP4103 (or SP4102 with SP4099 as co-requisite), SP4004, and further credits may be taken from remaining modules available in the particular calendar year.</p> <p>Other information: The full 240 3000-level and 4000-level credits must be taken from the three languages concerned, but a minimum of 60 and a maximum of 120 credits may be chosen from each language. In total at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Two Languages (Spanish and one of French, German, Italian, Spanish)</p> <p>with a third subject (English, International Relations, Management.)</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees (see page 18.1)</p>	<p>Spanish element of Two Language with a third subject M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules.</p> <p>Level 2: 40 credits comprising a pass at 11 or better in two of SP2001 or SP2005 and SP2004; or a pass at 11 or better in both SP2003 and SP2002.</p> <p>Level 3 and Level 4: SP3001, SP3002, SP4003 or SP4103 (or SP4102 with SP4099 as co-requisite), SP4004, and further credits may be taken from remaining modules available in the particular calendar year.</p> <p>Other information: At least 150 3000-level or 4000-level credits must be taken from the two languages, with a minimum of 60 and a maximum of 90 from each language.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>
<p>(M.A. Honours): Spanish with Geography or Linguistics*</p> <p>Both are available as a 'With Integrated Year Abroad' degrees (see page 18.1)</p> <p>*(And WIYA) Not available to entrants from 2009-10</p>	<p>Spanish Major element in M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules.</p> <p>Level 2: 60 credits comprising SP2001 or SP2005 and a pass at 11 or better in SP2002.</p> <p>Level 3 and Level 4: 180 credits comprising SP3201, SP3202, SP4203 or SP4103 (SP4102 with SP4099 as co-requisite), SP4204, and further credits may be taken from remaining modules available in the particular calendar year.</p> <p>Other information: 180 3000-level or 4000-level credits must be taken from Spanish.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or semester may be spent in Study Abroad on a recognised Exchange scheme (see page 18.1)</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Biology, Chemistry, Computer Science, Economics, Geography, Geoscience, Internet Computer Science, Management, Mathematics, Physics, Psychology, or Statistics with Spanish</p> <p>All the above are available as a 'With Integrated Year Abroad' degree (see page 18.1)</p> <p>Not available to entrants from 2008-09</p>	<p>Spanish Minor element in B.Sc. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules for Scientists.</p> <p>Level 2: 40 credits to include a pass at 11 or better in SP2011 or SP2015, and SP2012.</p> <p>Level 3 and Level 4: 60 credits comprising SP3111, SP3112, SP4113, SP4114. Students spending a semester abroad may substitute SP4198 for any one of these modules.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or semester may be spent in Study Abroad on a recognised Exchange scheme depending on existing arrangements in other School (see page 18.1)</p>
<p>(M.A. Honours): Economics, Geography, Mathematics with Spanish</p> <p>All the above are available also as 'with Integrated Year Abroad' degrees (see page 18.1)</p>	<p>Spanish Minor element in M.A. Degrees:</p> <p>Level 1: 40 credits in 1000-level SP modules.</p> <p>Level 2: 40 credits comprising a pass at 11 or better in two of SP2001 or SP2005 and SP2004; or a pass at 11 or better in both SP2003 and SP2002</p> <p>Level 3 and Level 4: 60 credits comprising SP3001, SP3002, SP4003 or SP4103 (or SP4012 with SP4099 as co-requisite), SP4004.</p> <p>In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p> <p>One year or semester may be spent in Study Abroad on a recognised Exchange scheme depending on existing arrangements in other School (see page 18.1)</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

French (FR) Modules

FR3001 French Language I

Credits: 15 Semester: 1

Description: The module aims to give a fundamental training at Honours level in oral and written fluency and in translation into and out of French. It is intended as the basic practical language unit for all categories of student.

Class Hour: 11.00 am, 12.00 noon, 2.00pm or 3.00pm Monday.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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FR3002 French Language II

Credits: 15 Semester: 2

Description: Building on FR3001, the module aims to complete foundational training at Honours level in oral and written fluency in French. It is intended as the basic practical language unit for all categories of student and may be a specific prerequisite for FR4105. It may be taken independently of FR3001 subject to Chair's approval.

Class Hour: 11.00 am, 12.00 noon, 2.00pm or 3.00pm Monday.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 60%

FR3013 The Crusader Mentality and the Notion of the Epic

Credits: 15 Semester: 1

Availability: 2009-10 (tbc)

Description: The module introduces students to the literature in several genres which reflects the spirit of the earliest crusades, with particular reference to the collective ethos of the epic and the period of the First Crusade, and to the changing attitudes manifest by the year 1200, and the preaching of the Fourth Crusade.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3021 An Introduction to the French Classical Period

Credits: 15 Semester: 1

Availability: 2010-11 (tbc)

Description: This module aims to give a general introduction to the broader concerns of the literature of seventeenth-century France, looking at elements of development in the literary genres, while relating them to fundamental changes in the society of the time. Prescribed texts will be drawn from authors such as Corneille, Racine, Molière, Madame de la Fayette and La Fontaine.

Class Hour: To be arranged.

Teaching: One or one-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3028 Plays, Players and Playwrights: the Theatre in France, 1620-1715: (1)

Credits: 15 Semester: 1

Availability: 2009-10

Related module: FR4129

Description: This module will cover the following areas with regard to the theatre from 1620 until 1660 in terms of texts, and until 1680 in terms of the physical aspects: (i) the theatre as a physical entity: the *salles*, developments in staging, spectacle; (ii) the theatre as theory: from baroque to classical; (iii) the theatre as text: developments in the three genres; (iv) the theatre and society; (v) the theatre and political control. Primary texts to be drawn from Rotrou, P. Corneille, Scarron, (Molière). Secondary texts from Quinault, Mairret, Tristan.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 100%

FR3047 Literature of Ideas from Descartes to Rousseau (1)

Credits: 15 Semester: 1

Related module: FR4148

Description: This module studies the literature and history of ideas in seventeenth-century France. It will focus on such issues as the threat to religious orthodoxy, optimism and pessimism, *amour-propre* and the beginnings of opposition to the political régime of Louis XIV. Three or four texts will be studied chosen from a range of authors including Descartes, Saint-Évremond, Pascal, La Rochefoucauld and La Bruyère. This module complements others available in the Department dealing with the literature and theatre of seventeenth-century France.

Class Hour: To be arranged.

Teaching: One or one-and-a-half hours.

Assessment: Continuous Assessment = 100%

FR3053 History of the French Language

Credits: 15 Semester: 1

Availability: 2010-11

Description: The module explores the development of French from its parent-language Latin. No prior knowledge of Latin will be required. It will look first at the social history of the language, before examining short extracts illustrating the different stages through which the language has passed. The module includes an examination of how the sounds of Latin have changed to give rise to the Modern French sound-system.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3054 Contemporary French Language and Society

Credits: 15 Semester: 2

Availability: 2009-10

Description: The module opens with a discussion of the standard language and its relationship with the various non-standard varieties current in the French-speaking world. It continues with a description of the pronunciation, grammar and vocabulary, highlighting their tendency to variation and change.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3059 From One War to Another: French Politics, Culture and Society 1914-1945 (1)

Credits: 15 Semester: 2

Availability: 2009-10

Related module: FR4160

Description: This module will look at the upheavals in French politics and culture from the First World War to the early Thirties. Through the examination of literary texts, we will study total war and its consequences. Set texts include: Ian Higgins (ed.), *Anthology of First World War Poetry* and Louis-Ferdinand Celine, *Voyage au bout de la nuit*.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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FR3075 Antillean Literature from Cisaire to the Present

Credits: 15 Semester: 1

Availability: 2010-11

Description: This module introduces students to the rich literary production of the French Antilles (Martinique and Guadeloupe) of the last 70 or so years. Lectures will provide historical, political and literary background, while the bulk of work will consist of seminar discussion centred on four to seven texts, principally novels but possibly also including plays, collections of poetry or polemical writings. Writers discussed may include Cisaire, Glissant, Condi, Maximin, Chamoiseau and Pineau. The module is taught and assessed entirely in French.

Class Hour: To be arranged

Teaching: One-and-a-half hours

Assessment: Continuous Assessment = 100%

FR3076 Writing the Nineteenth Century (1); French literature, history and politics 1848 to 1871

Credits: 15 Semester: 2

Availability: 2009-10

Anti-requisite: FR3023

Description: This module explores the relationship between literature, politics and society during a crucial period of modern French history, from the Second Republic to the Paris Commune of 1871. Students will read literary texts by three major authors of the period. Discussion and analysis of these texts will allow us to consider issues such as urbanization, women's place and aspirations, war and insurrection and the poetics of visionary idealism. Students will thus achieve an informed understanding of essential elements in the cultural and political foundations of contemporary France.

Class Hour: To be arranged

Teaching: One-and-a-half hours

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3077 French Fiction from the 1990s into the 21st Century

Credits: 15 Semester: 1 (09-10), 2 (10-11)

Description: The aim of this module is to introduce students to representative works of contemporary French fiction, where 'contemporary' indicates a period of time no greater than fifteen years from the present day. At least two texts will be published in the 21st century. Set texts will be selected with a view to revealing emerging thematic and stylistic trends in French literature, which might currently include: literature post 9/11; representations of 'the Far East' (China and Japan); new perspectives on WWII; faith(s) today; influence of the visual (e.g. film) on the written text.

Class Hour: To be arranged.

Teaching: Weekly seminars and fortnightly lectures.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3078 Writing the Self in Twentieth-Century French Literature

Credits: 15 Semester: 2 (09-10), 1 (10-11)

Description: This module explores theories relating to autobiography and *écriture de soi* as well as a variety of autobiographical practices reflecting significant trends in twentieth-century French literature. Students will read texts by major authors (Sartre, Leiris, Duras and Ernaux) and will reflect on their thematic and stylistic features, with an emphasis on notions such as childhood, memory, (life)-writing, language, education and identity. Students will be encouraged to adopt a comparative approach in order to study the use of photography, myths, fiction and imagination in autobiography and autofiction and to conceptualise potential links between genre and gender.

Class Hour: To be arranged.

Teaching: Weekly seminars and fortnightly lectures.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3079 From Text to Screen: Novels and their Film Adaptations

Credits: 15 Semester: 1

Availability: 2009-10

Description: This module will focus on filmic adaptations of major French and Francophone literary works. Emphasis will be placed on the specificities and differences between film and literary text as well as their similarities. Whilst addressing questions about narrative and representation, this module will engage with the political dimensions of the process of appropriation at play in adaptation, in particular in the light of the development of postcolonial and feminist studies. It will lead to a discussion and analysis of the question of French and Francophone identity and its evolution both in literary and visual culture.

Class Hour: To be arranged.

Teaching: Weekly seminars and fortnightly lectures.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3080 Intellectuals in Modern France

Credits: 15 Semester: 1

Availability: 2009-10

Description: This module explores the role of intellectuals in modern France (from the end of the 19th century until today). We will examine the 'birth' of the intellectual during the Dreyfus Affair and evaluate the impact that intellectuals have had in the political and socio-cultural history of twentieth-century France. The following aspects will be covered: the definition and role of the intellectual, conflicts which have emerged between intellectuals in the twentieth century, the involvement of intellectual figures in the political sphere, the structures of the cultural and intellectual life in France, the role played and to be played by intellectuals in contemporary France.

Class Hour: To be arranged.

Teaching: Weekly seminars and fortnightly lectures.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR3101 French Integrated Year Abroad

Credits: 60 Semester: Whole Year

Prerequisite: Admission to Honours Programme with Integrated Year Abroad.

Anti-requisites: FR3103 or SOCRATES Exchange

Availability: May be subject to restrictions from receiving country.

Description: The objective of the module is language learning and cultural familiarisation through a work placement in a French speaking country. Placements will be as Language Assistants in Schools or on other assignments approved by the department. Formal learning and assessment will be through a supervised project chosen in consultation with the module co-ordinator who will provide more detailed guidelines. The Project Essay will be 5000 words in French to be received in the department by a specified date in May.

Teaching: By correspondence throughout the year.

Assessment: Project Essay = 100%

FR3103 Self-Access Residence Project in France

Credits: 15 Semester: 1

Anti-requisites: FR4198, FR4199 and as stated below.

Description: This module is designed to recognise and reward, on the basis of an approved project dissertation of 5,000-6,000 words, the benefit derived from an academically focussed period of six weeks' residence in the country of degree study. The residence project takes place in the summer vacation; the dissertation is written in French during the following semester. It is open to all students of single, dual, joint, triple language or three subject degrees who have neither taken FR3101 nor undertaken recognised study abroad such as a SOCRATES year. Enrolment is subject to the Chairman's discretion: the project for residence and the project dissertation topic must be agreed in advance.

Assessment: Dissertation = 100%

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FR3805 Honours French I (Science)

Credits: 15 Semester: 1

Prerequisites: A pass at 11 or better in FR2016

Co-requisite: 45 credits in modules offered in the Faculty of Science

Description: This module offers an extension at Honours level to the skills of oral and written production of French developed by FR2015 and FR2016. It involves communication skills, oral classes and consolidation of core language elements. It forms part of the relevant B.Sc. and M.Chem. degrees with French.

Class Hour: To be arranged.

Teaching: Three practicals.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 30%, Oral Examination = 30%

FR3806 Honours French II (Science)

Credits: 15 Semester: 2

Prerequisite: FR3805 or FR3809

Co-requisite: 45 credits in modules offered in the Faculty of Science

Description: This module offers a further extension of the skills developed by FR3805 or FR3809, involving communication skills in written and spoken French and further consolidation of core language elements. It forms part of the relevant B.Sc. and M.Chem. degrees with French.

Class Hour: To be arranged.

Teaching: Three practicals.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 30%, Oral Examination = 30%

FR3809 French Dissertation (Science)

Credits: 15 Semester: Either

Prerequisites: A pass at 11 or better in FR2016.

Co-requisite: 45 credits in modules offered in the Faculty of Science

Anti-requisite: FR4809

Description: This is a self-access module designed for students spending study periods or work placements away from St Andrews in connection with their Honours course in Science. Because such periods away may arise in any of the four semesters of the two Honours years, this module may be taken in place of either FR3805 or FR3806. It will be assessed by a dissertation in French (3,000 - 3,500 words) on an approved topic.

Assessment: Dissertation = 100%

FR4078 Music in Nineteenth-Century French Poetry

Credits: 15 Semester: 1 (09-10), 2 (10-11)

Description: In this module we will study the crucial role played by notions of music and musicality in the development of French poetry during an intense period of innovation. We will consider why, and how, throughout the nineteenth century, from the Romantic period (Lamartine, Hugo) to the Symbolists (Verlaine, Mallarmé), as the definition of poetry evolves rapidly, it nevertheless remains closely bound to musical concepts such as melody, harmony and rhythm. Focusing primarily on important poetic texts by major authors, we will also consider the parallels between formal and theoretical developments in both poetry and music, and the ways in which both arts evolve through comparison with each other. No prior expertise in the practice or study is required for this module, which focuses on how poetry defines itself through musical ideas.

Class Hour: To be arranged.

Teaching: Weekly seminar and occasional lectures.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4103 Translation Methodology (1)

Credits: 15 Semester: 1

Related module: FR4104

Description: The module gives a progressive, intensive training in the method and practice of translating from French into English. Topics covered include: translation as process and product; cultural issues in translation; translation and the formal properties of texts. A wide range of material is used, from technical texts, through consumer-oriented texts to poetry and song.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 100%

FR4104 Translation Methodology (2)

Credits: 15 Semester: 2

Prerequisite: FR4103

Description: The module gives a progressive, intensive training in the method and practice of translating from French into English. Topics covered include: translation and language variety, translation and textual genres, technical translation, editing, aspects of contrastive linguistics. A wide range of material is used, from technical texts, through consumer-oriented texts to literary texts.

Class Hour: To be arranged.

Teaching: One 2 hour seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4105 Communication Skills in French (1)

Credits: 15 Semester: 1

Prerequisites: FR3002 if taken, otherwise FR3001 or SOCRATES year/semester abroad.

Description: The module aims to develop communicative skills, both written and spoken. It follows a text- and video-based method designed by the Department which enables students to present ideas and opinions clearly and persuasively, in appropriate registers of French.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 100%

FR4106 Communication Skills in French (2)

Credits: 15 Semester: 2

Prerequisite: FR4105

Description: Building on FR4105, this module aims to further develop communicative skills, both written and spoken. Pursuing the text- and video-based method it enhances the ability of students to present ideas and opinions clearly and persuasively, in appropriate registers of French.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 30%, Oral Examination = 30%

FR4114 The Chivalric Romance and the World of Arthur

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module introduces students to both the verse and prose romance from the period c.1150-1250, together with shorter texts such as the breton *lai* and comic parodies of romance. The course will include consideration of concepts of literary form and originality, and of attitudes to women. Overall it will focus on the rise of the individual, and the possibility of success and failure through the process of the *aventure*.

Class Hour: To be arranged.

Teaching: One or one-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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FR4122 Literature of the French Enlightenment

Credits: 15 Semester: 2

Description: This module provides an introduction to the literature of eighteenth-century France. Texts are studied within the context of the literary and intellectual preoccupations of the period. Prescribed authors may include writers such as Marivaux, Diderot, Voltaire and Beaumarchais.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4124 Twentieth-century French Literature

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module focuses on the twentieth-century novel and involves the study in depth of works by authors such as Gide, Sartre, Camus, Tournier, Duras, Darrieussecq and Marie Nimier. Topics for study will include the notion of narrative, its exploration and re-evaluation; ethics and morality; the place and status of the individual/writer in society; and themes such as the self, other, identity, gender, sexuality, the family, nature and urbanism.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4129 Plays, Players and Playwrights: the Theatre in France, 1620-1715: (2)

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisite: FR3028

Description: This module will cover the following areas with regard to the theatre from 1660 until 1715 in terms of texts, and from 1680 until 1715 in terms of the physical aspects: (i) the theatre as a physical entity: the *salles*, developments in staging, opéra; (ii) the theatre as theory: solidification and stasis; (iii) the theatre as text: generic polarisation; (iv) the theatre and society - l'effet Versailles; (v) the theatre and political control. Primary texts to be drawn from P. Corneille (*Trois Discours*), Molière, Racine, Dancourt, Lesage. Secondary texts from La Fontaine, Cyrano.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 100%

FR4149 Aspects of Gender in Seventeenth-Century Theatre

Credits: 15 Semester: Either

Availability: 2009-10

Description: This module presents an exploration of key issues relating to sex and gender as they feature in seventeenth-century theatre. Topics will include male-female relations, marriage and widowhood, female education, homoeroticism, cross-dressing, cross-casting, gender stereotypes and female authorship. Our corpus will include a variety of theatrical genres, including comedy, tragedy, tragic-comedy and sacred drama by Benserade, Pierre Corneille, Thomas Corneille, Molière, Villedieu and Racine. The reading list will include some critical articles and some short theoretical readings, notably excerpts from Foucault's *Histoire de la sexualité*,

Class Hour: To be arranged.

Teaching: One-and-a-half hours

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4160 From One War to Another: French Politics, Culture and Society 1914-1945

Credits: 15 Semester: 1

Availability: 2010-11

Related Module: FR3059

Description: This module will look at the rise of Communism and Fascism, Vichy France, the Resistance and l'áipuration. Set texts include: Andri Malraux, *La Condition humaine*, Georges Bataille, *Le Bleu du ciel*, Ian Higgins (ed.), *Anthology of Second World War Poetry*.

Class Hour: To be arranged.

Teaching: One-and-a-half hours

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4180 Modern French Thought

Credits: 15 Semester: 2

Availability: 2010-11 (2009-10 to be confirmed)

Description: This module will focus on French thought and its developments from the 1940s onwards. The main critical and intellectual currents will be studied, such as existentialism, structuralism, semiology, post-modernism in relation to modernism, and feminism. Texts by key authors of the second half of the twentieth century (for example Sartre, Barthes, Kristeva, Foucault, Lyotard) will be analysed to show how the notions of language, knowledge and power as well as gender issues have evolved, how they are connected and how they are currently interpreted on the French contemporary literary and intellectual scene.

Class Hour: To be arranged

Teaching: One-and-a-half hours

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4181 Contemporary French Crime Fiction

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module introduces students to contemporary (post-1985) French crime fiction. Via the analysis of texts by key contemporary crime writers (e.g. Pennac, Dantec, Aubert, Izzo) students will learn about: the historical background of the genre; how and where crime fiction is situated in the fields of 'popular culture' and literature in general; what different sub-genres of crime fiction exists. The module will focus on both the modalities of social / historical / political engagement of the set texts and the narrative and linguistic strategies deployed in the writing of crime fiction.

Class Hour: To be arranged

Teaching: Weekly seminars and fortnightly lectures.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

FR4198 Dissertation on a French Topic

Credits: 15 Semester: Either

Anti-requisite: FR3103, FR4199

Description: The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 5,000 – 6,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be agreed in advance by the Chairman of Department following a favourable report from the Supervisor, whom students should contact in the first instance.

Assessment: Dissertation = 100%

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FR4199 Long Dissertation on a French Topic

Credits: 30 Semester: Whole Year

Anti-requisites: FR3103, FR4198, GM4099, IT4099, RU4199, SP4099

Description: The dissertation offers students the possibility of personal advanced study on a topic in French on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum. It should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be agreed in advance by the Chairman of Department following a favourable report from the Supervisor, whom students should contact in the first instance.

Assessment: Dissertation = 100%

FR4807 Honours French III (Science)

Credits: 15 Semester: 1

Prerequisites: Two of FR3805, FR3806, FR3809

Co-requisite: 45 credits in modules offered in the Faculty of Science

Description: This module extends the skills of oral and written production of French into the final Honours year. It continues the communication skills programme using video and textual material. It forms part of the relevant B.Sc. and M.Chem. degrees with French.

Class Hour: To be arranged.

Teaching: Three practicals.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 30%, Oral Examination = 30%

FR4808 Honours French IV (Science)

Credits: 15 Semester: 2

Prerequisites: Three of FR3805, FR3806, FR3809, FR4807, FR4809

Co-requisite: 45 credits in modules offered in the Faculty of Science

Description: This module completes the communication skills training in written and spoken French for the B.Sc. or M.Chem. student in the final year. Using video and textual material, it also requires the student to prepare, for the oral examination in French, the Science project required by the relevant Science department (or some equivalent topic).

Class Hour: To be arranged.

Teaching: Three practicals.

Assessment: Continuous Assessment = 40%, 3 Hour Examination = 30%, Oral Examination = 30%

FR4809 Science French Dissertation

Credits: 15 Semester: Either

Prerequisites: FR3805, FR3806

Co-requisite: 45 credits in modules offered in the Faculty of Science

Anti-requisite: FR3809

Description: This is a self-access module designed for Senior Honours students spending study periods or work placements away from St Andrews in connection with their Honours course in Science, when it will replace either FR4807 or FR4808. It will be assessed by a dissertation in French (3,500-4,000 words) on an approved topic. For students in their final semester, the Oral Examination will also determine the award of Distinction in Spoken French.

Class Hour: To be arranged.

Assessment: Continuous Assessment = 80%, Oral Examination = 20%

FR5810 Science Project Report in French

Credits: 30 Semester: Whole Year
Prerequisites: Admission to stage 4 of MChem with French Programme
Anti-requisites: FR3101, FR3103, FR3810, FR3809, FR4809
Co-requisites: CH4441 or CH4442

Description: This module offers students the opportunity of personal study arising from a work placement or research project in connection with their science course. It will be assessed by a dissertation in French, normally 5,000 words in length including any quotations, on an agreed topic for which the student already possesses adequate foundation knowledge and for which suitable linguistic supervision can be provided. During the work placement or project year, students will collect data for their dissertation and will prepare a plan in French which will be submitted at the beginning of their final year. This will provide a benchmark for writing the dissertation, which will allow any relevant knowledge acquired during the final year to be incorporated.

Assessment: Dissertation = 100%

German (GM) Modules

GM3005 German Language I

Credits: 15 Semester: 1

Description: This is a core language module for all students in the second semester of the first year of the Honours programme. It aims to develop written and spoken German language skills. Two weekly classes are taught by native-language tutors. Materials used in classes are texts and videotapes in a wide range of registers. Students' work includes reading comprehension, discussion of issues raised by texts and videotapes, a variety of written responses, and revision of aspects of grammar.

Class Hour: 11.00 am, Tuesday and Friday

Teaching: Two language classes.

Assessment: Continuous Assessment = 40%, 2 Hour written Examination = 60%

GM3006 German Language II

Credits: 15 Semester: 2

Description: This is a core language module for all students in the second semester of the first year of the Honours programme. It further develops written and spoken German language skills through work based on texts and videotapes in a range of registers and tasks including reading comprehension, discussion of issues raised by texts and videotapes, written responses, and review of aspects of grammar.

Class Hour: 11.00 am or 12.00 noon Tuesday and Friday.

Teaching: Two language classes.

Assessment: Continuous Assessment = 40%, 2 Hour written Examination = 40%, Oral Examination = 20%

GM3070 Heroism in German Literature

Credits: 15 Semester: 1

Availability: 2009-10

Description: This module aims to give insight into Prussian-German history through an examination of literary discourses on heroism. It is often in tales of heroism that national identity is created. The texts studied in this module cover the history of Prussia from the triumphs of Frederick the Great to the end of Prussia as a state at the end of the Second World War. Texts from a variety of periods – such as Enlightenment, Romanticism, Realism and Modernism – will be studied in this module.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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GM3071 Recent German Literature

Credits: 15 Semester: 1

Availability: 2010-11

Description: The module involves the study of a representative selection of works of recently published German literature. The set texts have appeared since the mid 1990's and range from pop literature of the day to classics of tomorrow. A few prose pieces, one collection of poetry and one play will exemplify major trends in present-day German writing. The texts studied in this module offer insights into the fabric of language and modern life as it unfolds.

Class Hour: To be arranged.

Teaching: Two seminars

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM3072 Gender and sexuality in pre-modern German writing

Credits: 15 Semester: 1

Availability: 2010-11

Description: This module introduces students to some of the most popular and influential texts of the twelfth to the sixteenth centuries by focusing on the key issue of gender and sexuality. At the same time, students will encounter some classic feminist and queer studies. Juxtaposing contemporary theory and pre-modern writing will enable students to critically engage with both. We will discuss constructions of gender and sexuality in medical, religious and courtly texts; and issues like marriage, cross-dressing, homosexuality and witchcraft.

Class Hour: To be arranged.

Teaching: Two seminars

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM3080 Grammatical Rules and Lexical Exceptions in Modern German

Credits: 15 Semester: 1

Availability: 2010-11

Anti-requisites: LI3001

Description: Grammatical rules and lexical exceptions in modern German are considered against the background of Saussurean structuralism. Saussure said that a language is a system, and languages do indeed have rules, in their grammar. But most rules of grammar have a long list of unexplained exceptions - why? The view taken in this module is that unexplained exceptions indicate that the grammarians have got the rule wrong. We look at two rules of modern German to see how a close examination of their unexplained exceptions can point to a new and better rule: the passive and non-passivizable transitive verbs; and tense formation and strong verbs.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM3081 Words and their functions in modern German

Credits: 15 Semester: 1

Availability: 2009-10

Description: This module focuses on the vocabulary in modern German (in contrast to GM3080, which focuses on grammar), on words and their categorization, structure and functions. We begin by looking at the functional (as opposed to structural) approach to language, which sees language as action and effects rather than as a static grammar + lexicon. We consider three approaches to the categorization of German vocabulary, i.e. the parts of speech: categorisation by syntax, by morphology, and by semantics. Two areas of language and politics are discussed: feminist linguistics, and Nukespeak. Finally, we examine word formation in German, covering compounds, prefixes, suffixes, conversion, and morphological transparency versus opacity.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM3101 German Integrated Year Abroad

Credits: 60 Semester: Whole Year

Prerequisite: Admission to the Honours Programme with Integrated Year Abroad.

Anti-requisites: GM3103 or Socrates exchange.

Availability: May be subject to restrictions from receiving country.

Description: The objective of the module is language learning and cultural familiarisation through work placement in a German-speaking country. Placements will be as language assistant in a school or on other assignments approved by the department. Formal learning and assessment is through a supervised project chosen in consultation with the module co-ordinator, who will provide more detailed guidelines. The project essay will be 5000 words in German to be received in the department by May 5th.

Assessment: Project Essay = 100%

GM3103 Residential Project in German Speaking Country

Credits: 15 Semester: 1

Anti-requisite: GM3101, GM4098

Description: The objective is language learning and cultural familiarisation through self-access residence in a German-speaking country. The student will spend at least six weeks in a German-speaking country. Formal learning and assessment are by means of a project, written up in German on the student's return. The project will not exceed 5,000 words of writing, though other supplementary material may be included. Enrolment is subject to the discretion of the Chairman of Department.

Assessment: Project = 100%

GM4007 Translation Methodology (German/English)

Credits: 15 Semester: 2

Availability: 2010-11

Description: The aim of the module is to develop advanced skills in translating from German into English. The module encourages students to make a careful analysis of the linguistic characteristics of the source texts and to focus on recurrent problems of translation and the methods available for dealing with them. A range of text types including consumer-oriented (technical/commercial), journalistic and literary will be translated into the target language.

Class Hour: To be arranged.

Teaching: Two language classes.

Assessment: Continuous Assessment = 40%, 2 Hour written Examination = 60%

GM4047 German Cinema

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module involves the study of German films from the early twentieth century to the present. It covers not only the whole period of German film history but also a variety of genres and styles ranging from Expressionism and Brecht's work on film through wartime melodrama to both GDR and West-German depictions of the political past and present. The heyday of New German Cinema will be addressed and finally more recent films will be considered. Several of the films presented are set in Berlin, before and after the Second World War and in the present. This focus will assist in the exploration of aspects of political, social and cinematographic development.

Class Hour: To be arranged.

Teaching: Two seminars and one film screening.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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GM4069 German History 1949 to the Present

Credits: 15 Semester: 2

Availability: 2009-10

Description: The module looks at key topics, periods and personalities of German society and politics from 1949 to the present day. It examines documents from the period in order to obtain a first-hand perspective on the language and society of the time, noting particularly the relationship between language and ideology. Topics to be covered are: the social, political and economic systems of the Federal Republic of Germany and the German Democratic Republic 1949-89; the *Wende* and the unification of Germany May 1989-October 1990; Germany since the *Wende*.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM4081 Modern Theatre

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module involves the study of three major 20th century German dramatists. Bert Brecht is the founding father of epic theatre, the most influential form of political theatre to date. The GDR writer Heiner Müller as his literary heir and the Austrian Nobel Prizewinner Elfriede Jelinek complete the programme. Brecht aimed at establishing a theatre that turned performing and viewing into political processes. He and his successors – however – address audiences that wish to be entertained as well, and they develop new theatrical strategies to put their message across. The study of their plays will afford insight into the historical contexts of pre- and post-war Germany and Austria.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM4083 Terrorism in German Cinema

Credits: 15 Semester: 2

Availability: 2010-11

Description: This module enables students to engage with some of the ethical and social aspects of the German post-war film and culture, by analysing films on terrorism in Germany in the 1970s. It will provide an introduction to some of the classics of the New German Cinema as well as to more recent film. In particular, we will discuss the problems of representing reality and history; the cultural and social climate of the 1970s in which both the New German Cinema and the Red Army Faction flourished; and the psychological and political models for explaining terrorism.

Class Hour: To be arranged.

Teaching: Two seminars; plus fortnightly film screenings

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM4086 Reason and Revolt: German Culture in the Enlightenment

Credits: 15 Semester: 2

Availability: 2009-10

Description: A time of religious crisis and political disunity, the eighteenth century witnessed an unprecedented explosion of creativity in all areas of German cultural life. In philosophy, the Age of Enlightenment gave rise to the optimistic faith in the power of human reason to abolish ignorance, superstition and tyranny. In the world of letters, a new national literature was finally emerging. But by the 1770s the rationalism of the Enlightenment was giving way to the passion and extravagance of the short-lived but influential *Sturm und Drang* movement. This module introduces students to the work of some of the key champions and critics of the Enlightenment – Kant, Lessing, Herder, and Goethe, amongst others – and through them explores the themes of progress and human perfectibility, cosmopolitanism and tolerance, religion, class, social rebellion and the cult of genius.

Class Hour: To be arranged

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM4087 Gods, Greece and the German Imagination

Credits: 15 Semester: 2

Availability: 2010-11

Description: Throughout the eighteenth and nineteenth centuries, German thinkers and writers were fascinated with the culture, art and myths of ancient Greece. Why? This module explores the evolution of ‘philhellenism’ in Germany over a period of more than 100 years - from its origins in the work of JJ Winckelmann to the appropriation of the classical ideal in the literature and aesthetics of ‘Weimar Classicism’, from the poetry of Friedrich Hölderlin to the radical reevaluation of Greek culture undertaken by Friedrich Nietzsche - and sets these developments in their historical and ideological contexts. At issue will be the different meanings that the Hellenic world came to possess for these intellectuals, and how their idealisation of Greece and the Greeks profoundly influenced German ideas about art, modernity, politics and identity.

Class Hour: To be arranged

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

GM4098 Dissertation on a German Topic

Credits: 15 Semester: Either

Anti-requisite: GM3103, GM3098

Description: The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 5,000 – 6,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the Chairman of Department.

Assessment: Dissertation = 100%

GM4099 Long Dissertation on a German Topic

Credits: 30 Semester: Whole Year

Anti-requisites: GM4098, IT4099, FR4199, RU4199, SP4099

Description: The dissertation offers students the possibility of personal advanced study on a topic in German on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be agreed in advance by the Chairman of Department following a recommendation by the Supervisor, whom students should contact in the first instance.

Assessment: Dissertation = 100%

GM4105 German Language III

Credits: 15 Semester: 1

Description: This is a core language module for all students in the second year of the Honours Programme. It is designed to develop advanced written and oral language skills based on translation from and into German, while the oral part of the module will afford insight into communicative situations, strategies and approaches in a variety of contexts. Students will learn to recognize and analyse communication techniques and employ them effectively in different situations.

Class Hour: 11.00 am or 3.00 pm Monday and 11.00 am or 3.00 pm Thursday.

Teaching: Two language classes.

Assessment: Continuous Assessment = 40%, 1 Hour translation into English Examination, + 15 minute Oral Examination = 60%

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GM4106 German Language IV

Credits: 15 Semester: 2

Description: This is a core language module for students in the second year of the Honours Programme. It is designed to develop advanced written and oral language skills based on task-based text production, summary and essay writing, while the oral part of the module will afford insight into communicative situations, strategies and approaches in a variety of contexts. Students will further develop their competence in recognizing and analyzing communication techniques and in employing them effectively in different situations.

Class Hour: 11.00 am or 3.00 pm Monday; 11.00 am or 3.00pm Thursday.

Teaching: Two seminars.

Assessment: Continuous Assessment = 40%, 1 Hour Essay in German = 20%, Oral Examination = 40%

GM4801 German Dissertation (Science)

Credits: 15 Semester: Either

Prerequisites: GM2035 and Grade 11 in GM2036

Anti-requisite: GM3801

Description: This is a self-access module for students spending study periods and work placements away from St Andrews, in connection with their Honours courses in Science. Because such periods away may arise in any of the four Honours semesters of the two Honours years, this module may be taken in place of any one of the modules GM3005, GM3006, GM4105, GM4106.

Assessment: Dissertation in German (3000 - 3500 words) = 100%

Italian (IT) Modules

IT3001 Italian Language I

Credits: 15 Semester: 1

Description: This is the core language module for all students of Italian in the first year of the Honours programme. It builds on the work covered in the first and second level Italian Language modules. The module will include translation from and into Italian; analysis of advanced texts; practice in reading and discussing texts; and advanced Italian conversation.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 100%

IT3002 Italian Language II

Credits: 15 Semester: 2

Description: This module is intended to build on the achievement of IT3001, and to further increase the student's command of written and spoken Italian as well as reading and listening skills. The module will include translation from and into Italian; analysis and interpretation of advanced texts; practice in reading and discussing texts; and advanced Italian conversation.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 2 Hour Written Examination = 30%, Oral Examination = 30%

IT3009 History of the Italian Language

Credits: 15 Semester: 1

Availability: 2009-10

Description: The module begins by exploring how, why and when Italian evolved from its parent language, Latin (no prior knowledge of Latin is assumed). Italian will be located in its linguistic and historical context, and concepts such as language families and language change will be introduced. The processes shaping the vocabulary of Italian will then be examined, as will the emergence of Florentine in the Renaissance as Italy's language of literature and the impact of this on Italian 'dialects'. The module concludes by considering the evolution of the linguistic situation between 1860 and 2007.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT3012 Fourteenth-Century Literature

Credits: 15 Semester: 1

Description: This module offers an introduction to Italian literature and language of the *Trecento*, primarily through three major authors: Dante, Boccaccio and Petrarch. Extracts of other texts will be read for the purpose of comparison. The literary, political, religious and philosophical background will be introduced through close study of selected parts of the texts.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT3014 The Language and Literature of Renaissance Italy

Credits: 15 Semester: 1

Availability: 2010-11

Description: This module provides an introduction to Italian literature and language of the *Cinquecento*, primarily through selected works of Bembo, Michelangelo, Ariosto and Tasso. Extracts of other works will be read in relation to the *Questione della lingua*, and the development of literary paradigms in Renaissance Italy. The literary, social and political background will be introduced through close study of the texts.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT3019 Contemporary Italian Narrative and Poetry

Credits: 15 Semester: 1

Description: The module offers an insight into the works of contemporary Italian writers, with a particular focus on the 1980s and 1990s. The texts that will be studied are selected from a variety of writers and will be analysed in the original language. Through the reading of selected authors (from Pier Vittorio Tondelli to pulp-fiction writers such as Silvia Ballestra and Aldo Nove) students will be exposed to the different ways in which contemporary writers represent themselves in the reality of contemporary Italy. An element of contemporary Italian history will inform the module. Students will be encouraged to develop their own critical approach to the analysis of literature.

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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IT3022 Nineteenth-Century Literature

Credits: 15 Semester: 1

Availability: 2010-11

Description: This module studies literature and thought of the nineteenth century, considered in its historical context. It focuses on works by Manzoni and Verga, and on topics such as the writer's relationship to society and the nature of literary representation.

Class Hour: To be arranged.

Teaching: Two hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT3035 Italian Detective Fiction

Credits: 15 Semester: 2

Description: Detective stories are enormously popular in Italy but the genre has generally been regarded as primarily Anglo-Saxon. The prominence of a number of Italian crime writers in the 1990's prompted talk of a *giallo nazionale* and a reconsideration of the history of the genre dating Italian crime fiction back to the nineteenth century. This module studies the history of the detective novel in Italy, considers critical approaches to the genre, and examines the treatment of common features and themes by writers such as Leonardo Sciascia, Giorgio Scerbanenco, Umberto Eco, Carlo Lucarelli, Lorian Macchiavelli, and Andrea Camilleri.

Class Hour: To be arranged.

Teaching: 2 lectures/seminars

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT3037 Contemporary Italian Women Writers

Credits: 15 Semester: 2

Description: Since the Second World War the role of women in Italy has undergone profound and rapid change. Women writers have reflected these changes in their fiction. This module explore the development of female identity, considers the ways in which women writers have responded to social, political and cultural changes, and examines common themes such as women's autobiography, the mother and daughter relationship, and the body, as treated by contemporary writers such as Anna Banti, Luisa Passerini, Clara Sereni, Elena Stancanelli.

Class Hour: To be arranged.

Teaching: 2 lecture/seminars

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT3101 Italian Integrated Year Abroad

Credits: 60 Semester: Whole Year

Prerequisite: Admission to the Honours Programme with Integrated Year Abroad.

Anti-requisites: IT3103 or Socrates exchange in Italy.

Availability: May be subject to restrictions from receiving country.

Description: The objective of the module is language learning and cultural familiarisation through work or study placement in Italy. Placements will be as language assistants in a secondary school, as students at an Italian university or on a work placement approved by the Department. Formal learning and assessment is through a supervised project chosen in consultation with the module co-ordinator, who will provide more detailed guidelines. The project essay will be 5000 words in Italian to be received in the department by May 5th.

Assessment: Project Essay = 100%

IT3103 Self-access Residence in Italy

Credits: 15 Semester: 1

Anti-requisite: IT3101 or Socrates exchange in Italy.

Description: The credits will be awarded for completion of a period of residence in Italy of a minimum of four weeks during the summer vacation immediately before or following the first Honours year. The period may be spent on an approved course or work placement, or for such other purposes as may be approved by the Head of School.

Assessment: Project essay of c. 4,500 words in Italian on a topic approved by the Head of School and related to the experience of the period in Italy, to be submitted by the beginning of the following academic session = 100%

IT4003 Communication Skills I

Credits: 15 Semester: 1

Description: This is the first part of the core language module for all students of Italian in the second year of the Honours programme. Its aim is to develop advanced communication skills, both oral and written, in Italian, and it comprises (1) weekly oral skills classes in which students follow a programme of contemporary topics, using written and audio-visual materials, and (2) fortnightly written expression workshops developing the productive skills of essay and report writing.

Class Hour: To be arranged.

Teaching: One oral class and one two hour fortnightly written expression workshop

Assessment: Continuous Assessment = 100%

IT4004 Communication Skills II

Credits: 15 Semester: 2

Prerequisite: IT4003

Description: This is the second part of the core language module for all students of Italian in the second year of the Honours programme. Its aim is to continue to develop advanced communication skills, both oral and written, in Italian, and comprises (1) weekly oral skills classes in which students follow a programme of contemporary topics, using written and audio-visual materials, , and (2) fortnightly written expression workshops developing the productive skills of essay and report writing.

Class Hour: To be arranged.

Teaching: One weekly oral class and one two hour fortnightly written expression workshop

Assessment: Continuous Assessment = 40%, Two-and-a-half Hour Written Examination = 30%, Oral Examination = 30%

IT4005 Translation Methodology

Credits: 15 Semester: 1

Description: The module focuses on translation as process and as product, on cultural issues in translation and the formal properties of texts, on translation and language variety, and on aspects of contrastive linguistics. It is distinctive in its emphases on translation into English, on rigorous analysis, on practical problem-solving and small-group work, and in the range of texts studied (including literary texts).

Class Hour: To be arranged.

Teaching: One-and-a-half hours.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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IT4012 Dante Alighieri

Credits: 15 Semester: 2

Description: It is no exaggeration to say that, for a variety of reasons, Dante Alighieri is the single most important figure in the history of Italian literature. This module completes the study of Dante by looking at his work before and after the *Inferno*. Before the *Inferno*, Dante was best known as the author of the *Vita nuova*. This is our first text for study. Less read and more difficult, according to Dante himself, the *Paradiso* concludes the *Commedia* and is our other text for study. To complete our examination of Dante's ideas, reference will also be made to the *Convivio*, the *Monarchia*, and the *De vulgari eloquentia*, as well as to the *Purgatorio* and *Inferno*.

Class Hour: To be arranged.

Teaching: Two lecture/seminars.

Assessment: Continuous Assessment = 40%, Two Hour Examination = 60%

IT4013 Modern Italy through Cinema

Credits: 15 Semester: 2

Description: This module offers a perspective on historical as well as present views/conceptions of Italy, through the study of films by Italian directors such as: Luchino Visconti, Roberto Rossellini, Nanni Moretti and Gianni Amelio. There are about twenty screenings of selected cinematic texts in Italian with English subtitles. There is a greater in-depth analysis of between seven and nine films in classes. Students will be encouraged to develop their own critical approach through seminars and discussion. An element of Italian history will inform the module.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, Two Hour Examination = 60%

IT4014 Female Literary Representations in the Italian Renaissance

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module will explore the problematic relationship of women and culture in the early modern period by focussing on changes in the representation of the female in Italian literature in the course of the sixteenth century. Renaissance notions of the female self will be examined from differing perspectives, from the idealised forms of Petrarchism to the disenchanting reality of the courtesans. Key themes, such as the reinterpretation of mythological figures and the self-representation of female writers will be considered, as well as the work of writers such as Stampa, Fonte and Tullia d'Aragona.

Class Hour: To be arranged.

Teaching: Two lecture/seminars.

Assessment: Continuous Assessment = 40%, Two Hour Examination = 60%

IT4015 Literary Transvestism in Italian Literature

Credits: 15 Semester: 2

Availability: 2010-11

Description: The module looks at literary texts that have been written or re-narrated from the point of view of the opposite sex to that of the author. This phenomenon has recently been described as literary transvestism. This creates a variety of effects in the resulting texts, ranging from mere masquerade, to issues dealing with sexuality and gender, and even fetishism and pathology. The module will study texts such as Cesare Pavese's *La bella estate* and *Tra donne sole*, Alberto Moravia's *La romana* and *La ciociara*, and Elena Ferrante's *L'amore molesto*. In addition a number of films will be studied which are relevant to the texts and the theme of transvestism.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, Two Hour Examination = 60%

IT4016 20th Century Italian Canonical and Anti-Canonical Poetry

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module looks at voices and texts that have created contrasting discourses within the Italian Poetic tradition during the 20th century. Poets that have been recognised and promptly accepted and included within the Italian Canon, and poets who have been excluded or censored by it due to formal or political reasons. The module will study poets such as Gabriele D'Annunzio, Giuseppe Ungaretti, Eugenio Montale and Umberto Saba as representatives of the Canon, and Aldo Palazzeschi and other Futurist poets, as well as Cesare Pavese, Pier Paolo Pasolini, Elio Pagliarini, and Nanni Belestini as voices of the Anti-Canon.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, Two Hour Examination = 60%

IT4024 Authority and subversion in Renaissance Italy

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module studies literary experimentation in the Italian Renaissance and the more general rethinking of literature and poetry integral to this period. This is done through the study of burlesque, satirical and popular writing as well as more accepted forms of literature, by both mainstream and marginalized authors, such as Aretino, Basile, Berni, Cellini Folengo, Gelli, Michelangelo. Students will thus acquire a comprehensive understanding of the variety of Renaissance literary production, of the modernity and multiplicity of its forms, and of its subversive potential.

Class Hour: To be arranged.

Teaching: Two lecture/seminars.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

IT4098 Dissertation on an Italian Topic

Credits: 15 Semester: Either

Anti-requisite: IT4099

Description: The dissertation offers students the possibility of personal advanced study on an Italian topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 5,000 – 6,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department.

Assessment: Dissertation = 100%

IT4099 Long Dissertation on an Italian Topic

Credits: 30 Semester: Whole Year

Anti-requisites: IT4098, FR4199, GM4099, RU4199, SP4099

Description: The dissertation offers students the possibility of personal advanced study on a topic in Italian on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation will, as a rule, consist of a study of a body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department.

Assessment: Dissertation = 100%

Linguistics (LI) Modules

LI3001 General Linguistics I: The Method of Lexical Exceptions

Credits: 15 Semester: 1
Prerequisite: LI2002, or admission to an Honours degree in any subject other than Linguistics
Anti-requisites: GM3080

Description: Grammatical rules and lexical exceptions are considered against the background of Saussurean structuralism. Saussure said that a language is a system, and languages do indeed have rules, in their grammar. But most rules of grammar have a long list of unexplained exceptions - why? The view taken in this module is that unexplained exceptions indicate that the grammarians have got the rule wrong. We look at two grammatical rules to see how a close examination of their unexplained exceptions can point to a new and better rule: the passive and non-passivizable transitive verbs; and tense formation and strong verbs. The main language of illustration is English, with some mention of German, Russian, French, and other languages; students are encouraged to bring their own languages, either which they are studying or which they have as a native language, into the discussion. The module is of interest and is accessible to, not just linguists, but philosophers, anthropologists, psychologists, literature students, and other disciplines.

Class Hour: To be arranged.
Teaching: One-and-a-half hours.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

LI3002 General Linguistics II: Language Variation and Change

Credits: 15 Semester: 2
Prerequisites: LI3001 or one of FR3053, GM3080, IT3009, ML3009, RU3015, RU3107, SP3011.

Description: This module initiates Junior Honours students into the implications of language variation, both for synchronic description and for language change, and takes its material from the domains of phonetics, phonology, morphology, syntax and lexis. Variation in a language is particularly significant because it provides information both about the language's past and, on the basis of present variation, about its possible future.

Class Hour: To be arranged.
Teaching: One-and-a-half hours.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

LI4001 General Linguistics III: Semantics and Discourse

Credits: 15 Semester: 1
Prerequisite: LI3002 or LI4098

Description: This module initiates Senior Honours students into the organisation and transmission of meaning through lexis and discourse, and into various methods of studying meaning, including corpus linguistics.

Class Hour: To be arranged.
Teaching: One-and-a-half hours.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

LI4002 General Linguistics IV: Languages in Contact

Credits: 15 Semester: 2
Prerequisites: LI4001 or LI4098

Description: This module examines in detail the processes at work in language contact situations. The historical perspective is treated in study of older contacts, such as Norman French/Anglo-Saxon, Polish/Ukrainian, Germanic/Slavonic; current contacts studied may include Finnic/Russian, English/the rest of the world.

Class Hour: To be arranged.
Teaching: One-and-a-half hours.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

LI4098 Dissertation on a Linguistics Topic

Credits: 15 Semester: Either
Prerequisites: LI3001 or one of FR3053, GM3080, IT3009, ML3009, RU3015, RU3107, SP3011
Description: The dissertation offers students the possibility of personal advanced study on a topic in Linguistics on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 5,000 – 6,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the Convener of the Linguistics Teaching Committee.
Assessment: Dissertation = 100%

Modern Languages (ML) Modules

Note: ML3000 and ML4000 modules may be taken in place of language-specific modules up to a maximum of 30 credits provided that (i) all compulsory language modules are taken; (ii) the consent of the Honours Adviser in the language in which the student wishes to substitute the ML module(s) on this basis is obtained; and (iii) the student has fulfilled the entry requirements for the ML module(s) concerned.

ML3009 Romance Philology I

Credits: 15 Semester: 1
Prerequisite: Entry into Honours in at least one of the following languages: French, Italian, Latin, Spanish.
Related module: ML4020
Description: This module, together with ML4020, offers students the opportunity to pursue the comparative study of the development of Latin through Romance dialects to the emergence of Standard Languages in several major European countries. The module will be taught in four equal sections, two in each module, of which variation and change within Latin will normally be taught in ML3009: (1) variation and change within Latin, leading to dialectalisation and the creation of new Romance standard languages; (2) comparative sound change across several Romance Languages; (3) comparative syntactic change across several Romance Languages; (4) the creation of vocabulary stocks, together with word formation and semantic change, these last three sections being linked in with the creation of new Romance standards.
Class Hour: To be arranged.
Teaching: One-and-a-half hours.
Assessment: Continuous Assessment = 100%

ML3105 Integrated Year Abroad : Semester 1

Credits: 30 Semester: 1
Prerequisite: Admission to Honours Programme with Integrated Year Abroad.
Anti-requisites: FR3103, GM3103, IT3103, RU3103, SP4103 or any Study Abroad
Co-requisite: ML3106
Description: The objective of the module is language learning and cultural familiarisation through a work placement or a period of approved study, in the context of an intergrated Year Abroad arrangement involving two countries where the languages included in the student's Honours degree programme are spoken. The particular components of this type of integrated year abroad (ML3105 and ML3106) are subject to specific approval by the Head of School (or delegate) in the first semester of the preceding year. Any student considering this module must seek early advice on the acceptability of their proposed pattern of residence and work/study abroad. Assessment takes the form of supervised project work prepared in consultation with a named supervisor from the School.
Teaching: By correspondence.
Assessment: Continuous Assessment = 100%

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ML3106 Integrated Year Abroad : Semester 2

Credits: 30 Semester: 2
Prerequisite: Admission to Honours Programme with Integrated Year Abroad.
Anti-requisites: FR3103, GM3103, IT3103, RU3103, SP3103 or any Study Abroad
Co-requisite: ML3105

Description: The objective of the module is language learning and cultural familiarisation through a work placement or a period of approved study, in the context of an intergrated Year Abroad arrangement involving two countries where the languages included in the student's Honours degree programme are spoken. The particular components of this type of integrated year abroad (ML3105 and ML3106) are subject to specific approval by the Head of School (or delegate) in the first semester of the preceding year. Any student considering this module must seek early advice on the acceptability of their proposed pattern of residence and work/study abroad. Assessment takes the form of supervised project work prepared in consultation with a named supervisor from the School.

Teaching: By correspondence.
Assessment: Continuous Assessment = 100%

ML4020 Romance Philology II

Credits: 15 Semester: 2
Prerequisite: ML3009
Description: This module completes the programme of study in the emergence of Romance Standard Languages outlined under ML3009, comprising in ML4020 the two sections not already taught in ML3009.
Class Hour: To be arranged.
Teaching: One-and-a-half hours
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

Russian (RU) Modules

RU3001 Advanced Russian Language I

Credits: 15 Semester: 1
Description: This module is mandatory for all Honours programmes containing a Russian element, except for programmes which include RU3101. It is designed to build on the level of language competence attained at the end of RU2002, RU2004 and RU2006. The module deals with grammar, the practical problems of translation from and into Russian, and introduces essay-writing in Russian. Oral tuition forms an important element of this module.
Class Hour: To be arranged.
Teaching: Two language classes and one oral class.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3002 Advanced Russian Language I, Part 2

Credits: 15 Semester: 2
Prerequisite: RU3001
Description: This module is mandatory for all programmes containing a Russian element, except for programmes which include RU3101 or RU3102. It is designed to build on the language proficiency acquired in RU3001. It deals with grammar, the practical problems of translation, and essay-writing in Russian. Oral tuition forms an important element of the module.
Class Hour: To be arranged.
Teaching: Two language classes and one oral class.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3005 Advanced Russian Translation I

Credits: 15 Semester: 1

Prerequisite: RU3101 or ML3106 in Russia.

Description: This module is designed to build on the language proficiency attained through a period of study in Russia, either on RU3101 or ML3106 (in Russia). The module is based around the study of the finer points of Russian grammar, advanced translation from and into Russian, essay-writing in Russian, and small-group oral classes.

Class Hour: To be arranged.

Teaching: Two language classes and one oral class.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3021 Russian Poetry of the Golden Age

Credits: 15 Semester: Either

Description: The module is designed to develop the knowledge of Russian literature acquired at sub-honours level, and in particular to examine Russian poetry of the early nineteenth century. It begins with the theory of versification, after which the most important poets of the early nineteenth century are studied, together with key texts in Russian. These include Pushkin's lyric poetry and novel in verse Eugene Onegin, and the poetry of Lermontov and Tyutchev.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3022 The Nineteenth-Century Russian Novel

Credits: 15 Semester: Either

Description: The module is designed to build on the knowledge of Russian literature acquired at sub-honours level, and in particular to examine the genre of the novel as it developed in the nineteenth century. The most important writers of the period are studied, including works by Gogol, Turgenev, Tolstoy and Dostoevsky. Historical and literary context is provided through consideration of the Slavophile / Westerniser debate and realism.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3024 A Special Russian Author of the Nineteenth Century

Credits: 15 Semester: Either

Description: The module is designed to build on the knowledge of nineteenth-century Russian literature acquired at sub-honours level, with particular concentration on one major author. The writings of one of the following authors are studied in detail: Pushkin, Gogol, Tolstoy, Dostoevsky, Chekhov, examining especially those works that are not covered in sub-honours modules. Independent study will form a major element of the module.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3025 Russian Fiction 1880-1917

Credits: 15 Semester: 1

Description: The module is designed to build on the knowledge of modern Russian literature acquired at sub-honours level, concentrating on the genre of short prose from the age of Chekhov to the Bolshevik Revolution. It focuses on the short stories of the leading realist and neo-realist writers, including Chekhov, Gorkii, Andreev and Bunin. All works are studied in Russian.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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RU3026 Russian Modernist Fiction 1900-1940

Credits: 15 Semester: 2

Description: The module is designed to build on the knowledge of modern Russian literature acquired at sub-honours level, concentrating on the counter-tradition of 'modernist' or experimental fiction from Symbolism to 'Oberiu' (The association of Real Art). Writers studied will include Sologub, Belyi, Remizov and Kharms.

Class Hour: To be arranged.

Teaching: One lecture and one seminar

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3027 Soviet Fiction 1917-1940

Credits: 15 Semester: Either

Description: The module is designed to build on the knowledge of Soviet literature acquired at sub-honours level, concentrating on the prose genres. It focuses on the work of four leading writers of the 1920s and early 1930s: Zamiatin, Babel, Olesha and Bulgakov. All works are studied in Russian.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3030 A Special Russian Author of the Twentieth Century

Credits: 15 Semester: 2

Description: The module is designed to build on the knowledge of twentieth-century Russian literature acquired at sub-honours level, with particular concentration on one major author and examining especially those works that are not covered in sub-honours modules. Authors offered may include Mandel'shtam, Maiakovskii, Belyi, Solzhenitsyn, etc. Independent study will form a major element of the module.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3041 Early Nineteenth-Century Russian Intellectual History

Credits: 15 Semester: 1

Description: The module is designed to add to the dimensions of language and literature a study of the intellectual movements (philosophy, political ideas, religious thought and literary criticism in particular) in Russia in the early years of the nineteenth century. The most important representatives of the Russian intelligentsia of the period are studied, including Radishchev, the members of the Secret Societies, the Decembrists, Chaadaev, and Belinsky, together with key texts in Russian and translation.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3042 Mid-Nineteenth Century Russian Intellectual History

Credits: 15 Semester: 2

Description: The module is designed to add to the dimensions of language and literature a study of the intellectual movements (philosophy, political thinking, religious thought and literary criticism in particular) in Russia in the mid-nineteenth century. The most important representatives of the Russian intelligentsia of the period are studied, including the Slavophiles, Herzen, Chernyshevsky, Dobrolyubov, Pisarev, and Vladimir Solov'ev, together with key texts in Russian and translation.

Class Hour: To be arranged.

Teaching: One lecture and one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU3101 Russian Integrated Year Abroad

Credits: 60 Semester: Whole Year

Prerequisite: Admission to the Honours Programme with Integrated Year Abroad.

Anti-requisites: RU3102, RU3103, or Socrates exchange.

Availability: May be subject to restrictions from receiving country.

Description: The objective of the module is language learning and cultural familiarisation through a study placement in a Russian-speaking country. Placements will be as students in approved Russian as a Foreign Language departments at universities or in Language Schools. Formal learning and assessment is through a supervised project chosen in consultation with the module co-ordinator, who will provide more detailed guidelines. The project essay will be 4000 words in Russian to be received in the Department by July 15th.

Assessment: Project Essay = 100%

RU3102 Semester of Study in Russia

Credits: 60 Semester: 2

Anti-requisites: RU3101 and RU3103

Description: This module is offered subject to the availability of a suitable venue and to the consent of the Head of School. It is an optional part of the degree programme for students who have not spent a year in Russia as part of a degree With Integrated Year Abroad. The module is intended to develop students' skills in all aspects of the modern Russian language through extended residence and study in the country, offering total immersion in the culture. The syllabus is designed in co-operation with a university or other institution in a Russian-speaking environment. The project essay will be 4000 words in Russian to be received by the Department by July 15th.

Teaching: up to 20 hours depending on agreement with Russian institution.

Assessment: 4000-word Dissertation in Russian = 50%, Coursework = 25%, Class Test = 25%

RU3103 Self-Access Summer in Russia

Credits: 15 Semester: Summer Vacation

Anti-requisites: RU3101 and RU3102

Description: The module is designed to provide residence in Russia with an academic structure, and is intended for students who are unable to take either an integrated year or a semester of residence in Russia. It will take place in the summer of the Junior Honours year. The module will be a period of residence in Russia lasting a minimum of six weeks. A project essay of 2500 words in Russian must be submitted by September 10th of the year in which the residence takes place.

Assessment: Project Essay = 100%

RU3110 Advanced Russian Translation II

Credits: 15 Semester: 2

Prerequisite: RU3005

Description: This module builds on the written and spoken language skills developed in RU3005 by students who have spent a period of study in a Russian-speaking environment. Spoken Russian is improved through small group tuition with a native Russian language instructor. There are regular translation exercises grammar classes and oral presentations.

Class Hour: To be arranged.

Teaching: Two language classes and one oral class.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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RU4020 Directed Readings in Central and East European Languages I

Credits: 15 Semester: Either

Description: This module involves an introduction to the study of one of the following languages: Belarusian, Bulgarian, Croatian, Czech, Estonian, Finnish, Hungarian, Latvian, Lithuanian, Macedonian, Polish, Serbian, Slovak, Slovene, Upper and Lower Sorbian, or Ukrainian. This module will involve intensive study of the phonology, morphology, syntax, and lexicon of the language chosen. The student will, after completion of the module have achieved a sufficiently high level of reading knowledge to allow him/her to read and understand academic and every-day documents in the target language.

Class Hour: To be arranged.

Teaching: One lecture or seminar, one tutorial/discussion group.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU4042 The Fantastic in Nineteenth-Century Russian Literature

Credits: 15 Semester: Either

Description: The fantastic is a genre which interrogates the boundaries between the natural and the supernatural in order to provoke interpretive ambiguity. Developing out of the romantic tradition and alongside the rise of the realist novel, the fantastic enjoyed considerable popularity in Russia and was practised by many of its most notable writers. This module builds on the knowledge of nineteenth-century literature acquired at subhonours level as students read examples of the fantastic by such writers as Pogorel'skii, Pushkin, Zagoskin, Gogol', Odoevskii, Lermontov, Turgenev, Dostoevskii, Garshin and Chekhov. Analysis of the chosen texts will make reference to theories of the fantastic proposed since c.1950 as well as to narrative theory.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU4101 Advanced Russian Language II

Credits: 15 Semester: 1

Prerequisite: RU3001 or RU3110

Description: This module is mandatory for all Honours programmes containing a Russian element. It is designed to build on the level of language competence attained at the end of RU3002 and RU3110. It deals with the practical problems of translating from and into Russian and with essay writing. Oral tuition also forms an important element of this module with the emphasis on single-person reports and group discussions.

Class Hour: To be arranged.

Teaching: One language class and one oral class.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU4102 Advanced Russian Oral Skills

Credits: Zero Semester: 2

Prerequisite: RU4101

Anti-requisite: RU4104

Description: This module is the Oral part of RU4104 Communication Skills and is designed for students pursuing a triple-language or triple-subject degree whose modular programme does not allow them to opt for RU4104. It concentrates on developing the ability to communicate confidently in a broad range of possible situations in different areas of social life. The materials used include texts on a broad variety of topics on contemporary issues in different styles, including contemporary Russian literature, newspapers and magazine articles etc, as well as audiotapes and videotapes.

Class Hour: To be arranged.

Teaching: One hour oral class.

Assessment: Continuous Assessment = 40%, One half-hour Examination = 60%

RU4104 Russian Communication Skills

Credits: 15 Semester: 2
Prerequisite: RU4101
Description: Written and video materials on a given theme will be studied by students in advance of each class with a view to their being analysed, evaluated and further developed through individual presentation, round-table discussion and formal debate.
Class Hour: To be arranged.
Teaching: One hour oral class and one hour video class or written work.
Assessment: Continuous Assessment = 40%, One half-hour Oral Examination = 30%, Two Hour Written Examination = 30%

RU4106 Advanced Russian for Business

Credits: 15 Semester: 2
Prerequisite: RU4101
Description: This advanced module has as its objective the acquisition of a variety of linguistic skills in Russian, and by extension also in English, appropriate to working in business: correspondence, negotiation, travel, presentation, translation. Achieved through formal training, simulation, and role play during the final year of study, the skills taught by the module provide a solid basis for work in a Russian-UK commercial environment.
Class Hour: To be arranged.
Teaching: Two hours.
Assessment: Continuous Assessment (20% Oral, 20% Written) = 40%, 2 Hour Examination = 60%

RU4128 Soviet Literature 1940-1991

Credits: 15 Semester: 2
Description: The module is designed to impart an understanding of Soviet and post-Soviet literature of the last fifty years. The module begins with an account of the theory of Socialist Realism and an analysis of one work by a Socialist Realist writer (Erenburg). Attention then switches to post-Socialist Realist writing, including a novel by Solzhenitsyn, a play by Vampilov, and short stories by Tatyana Tolstaya. All works are studied in Russian.
Class Hour: To be arranged.
Teaching: One lecture and one seminar.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

RU4198 Dissertation on a Russian Topic

Credits: 15 Semester: Either
Anti-requisites: RU4199
Description: The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 5,000 – 6,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor.
Assessment: Dissertation = 100%

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RU4199 Long Dissertation on a Russian Topic

Credits: 30 Semester: Either

Anti-requisites: RU4198, SP4099, IT4099, FR4199, GM4099

Description: The dissertation offers students the possibility of personal advanced study on a topic which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with both the research co-ordinator and the potential supervisor.

Assessment: Dissertation = 100%

Spanish (SP) Modules

SP3001 Spanish Language I

Credits: 15 Semester: 1

Anti-requisites: SP3111

Co-requisite: SP3221 for Single, Major and Joint Spanish programmes

Description: The module overall objective of this core module is to promote advanced skills in listening, speaking, reading and writing in Spanish. In addition there will be elements that stimulate a high level of awareness of grammar. The syllabus is based on a selection of modern Spanish texts from both Spain and Spanish America which are used as sources for the study of various registers through reading comprehension, précis and rewriting exercises. The grammar involves a full understanding of an array of issues dealt with by Butt and Benjamin.

Class Hour: 9.00 am Thursday, plus one practical to be arranged.

Teaching: One class and one practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3002 Spanish Language II

Credits: 15 Semester: 2

Prerequisite: SP3001

Anti-requisite: SP3112

Co-requisite: SP3222 for Single, Major and Joint Spanish programmes

Description: The module overall objective of this core module is to promote advanced skills in listening, speaking, reading and writing in Spanish. The syllabus combines two main types of material: listening comprehension on the basis of recordings and a selection of texts for the study of different linguistic registers (including dialogues from fictional works and essays, books and sports reviews and written portraits of famous characters from newspapers.)

Class Hour: 9.00 am Thursday, plus one practical to be arranged.

Teaching: One class and one practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3006 Literary Translation

Credits: 15 Semester: 1

Availability: 2009-10

Anti-requisite: SP3007

Description: This module is designed to guide and train the student of the Spanish language in the translation of demanding literary texts, both from and into Spanish. The emphasis will be on practical translation. The source texts will be chosen so as to represent a variety of periods, genres and registers. The module has a complementary relationship to language work in the core language modules. It will require systematic use of sources of information about Spanish (e.g. dictionaries, grammars). Emphasis will be placed on the quality of the translation. To achieve that end, the module will be conducted in seminar mode in order to stimulate discussion and revision of draft translations.

Class Hour: 9.00 am - 10.30 am Wednesday.

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3011 History of the Spanish Language

Credits: 15 Semester: 1

Availability: 2009-10

Description: The module explores the evolution of Spanish from Latin to the seventeenth century. A prior knowledge of Latin is not expected. In addition to linguistic and socio-political history, the module involves an introduction to the works of Spanish linguists of the period.

Class Hour: 2.00 - 3.00 pm Friday.

Teaching: One class.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3101 Spanish Integrated Year Abroad

Credits: 60 Semester: Whole Year

Prerequisite: Admission to the Honours Programme with Integrated Year Abroad.

Anti-requisites: SP4102, SP4103 or Socrates exchange.

Availability: May be subject to restrictions from receiving country.

Description: The objective of the module is language learning and cultural familiarisation through work placements in a Spanish speaking country. Placements will be as language assistants or on other assignments approved by the department. Formal learning and assessment will be through a supervised project chosen in consultation with the module co-ordinator, who will provide more detailed guidelines. The project will be 5,000 words in Spanish to be received by the department by 5 May.

Assessment: Project = 100%

SP3111 Honours Spanish I (Science)

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: SP2012 (Science) and a pass at Grade 11 or better.

Anti-requisites: SP3001, SP3201, SP3198

Co-requisites: 45 credits in modules offered in the Faculty of Science.

Description: This module is part of the Honours core language course and it develops the communication skills, spoken and written, introduced in SP2000 modules. Material will focus on Science issues and the four skills of reading, listening, speaking and writing are further developed through prepared work, class activities and language practicals. The syllabus will be based on a selection of relevant scientific texts from both Spain and Latin-America which will be used as sources for the study of the Spanish language.

Class Hour: Two classes - 9.00 am or 10.00 am Tuesday and Thursday.

Teaching: Language classes

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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SP3112 Honours Spanish II (Science)

Credits: 15 Semester: 2

Availability: 2009-10

Prerequisite: SP3111

Anti-requisites: SP3002, SP4102, SP3198

Co-requisites: 45 credits in modules offered in the Faculty of Science.

Description: This module is part of the Honours core language course and it further develops the advanced communication skills, spoken and written, introduced in SP3111 module. Material will focus on Science issues and the four skills of reading, listening, speaking and writing are further developed through prepared work, class activities and language practicals. The syllabus will be based on a selection of relevant scientific texts from both Spain and Latin-America which will be used as sources for the study of the Spanish language.

Class Hour: Two classes - 9.00 am or 10.00 am Tuesday and Thursday

Teaching: Language classes

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3124 Spanish Cinema (Director/Auteur)

Credits: 15 Semester: 1

Availability: 2010-11

Description: The aim of the module is to develop critical expertise in Spanish Cinema and the period covered through the study of one influential Spanish director-auteur. The films will be studied in their aesthetic, ideological and social contexts, as well as the problematics of cinema auteurship. Linguistic skills will also be developed and enhanced. The director-auteur will change as announced in the UG Catalogue two years before the module is given, and could be any of Luis Buñuel, J A Bardem, Luis G Berlanga, Carlos Saura, Gutiérrez Aragi3n, Isabel Coixet, Iciar Bolain, etc on which the library holds a full audio-visual and substantial printed critical collection. The module is available as a dip-across to interested students in Honours, Art History, Film Studies or French not studying Spanish but with the necessary linguistic competence to be evaluated by the Spanish Department.

Class Hour: 11.00 am – 12.30 pm Wednesday.

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3138 Mexico in the Nineteenth Century

Credits: 15 Semester: 2

Availability: 2010-11

Description: Students will examine political and historical developments of Mexico in the *Siglo de Caudillos* (from the beginning of Independence in 1810 to the start of the Mexican Revolution in 1910). Particular attention will be given to the tensions which characterised the period - such as Church-State relations, military-civil relations, federalism versus centralism, conservatism versus liberalism, constitutionalism versus authoritarianism – and to key political leaders, ‘caudillos’, such as Hidalgo, Morelos, Iturbide, Santa Anna, Juarez, Maximilian and D3az. Reading will include primary material such as letters, speeches and articles from the Mexican press as well as secondary historical studies of the period.

Class Hour: 11.00 am - 12.30 pm Wednesday.

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3140 Literature and Politics in Spain 1930-1939

Credits: 15 Semester: 1
Availability: 2009-10

Description: Based on an understanding of a particularly turbulent period of contemporary Spanish history, students will examine the ways in which writers responded both to specific political events (such as the Moroccan War and the Asturian Revolution) and to pressures to enshrine in their work a particular political affiliation. Through the study of representative texts from the period (prose narrative, poetry and drama), students will look at such issues as the nature of committed literature, the relationship between literature and propaganda, and the aesthetic and ethical implications of writing creatively at the service of a political cause whether it be left- or right-wing.

Class Hour: 3.00 - 4.30 pm Tuesday.
Teaching: Ten One-and-a-half hour seminars.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3145 Post-1975 Writing in Spain, I

Credits: 15 Semester: 1
Availability: 2009-10

Description: The aim of the module is the close study of a selection of literary texts (works of prose fiction and poetry, in the main) produced in the post-Franco period. These narratives distance themselves from the realist (and experimental) mode of writing that dominated much of the literature produced between 1939 and the 1970s. Instead, they construct subjective worlds that, nevertheless, tend towards a universality of experience and can be seen as part of a process of the gradual 'normalization', Europeanization, and universalisation of Spanish cultural creations.

The selection is likely to include five works written by authors born after the end of the Civil War, such as: A. Bautista, F. Benítez Reyes, J. Cercas, L.A. de Cuenca, L. García Montero, J. Marías, E. Mendoza, A. Muñoz Molina, A. Orejudo, A. Pérez-Reverte, S. Puértolas and A. Rosetti. In the case of poetry, a relevant anthology including some of these authors will be recommended.

Class Hour: 11.00 am – 12.30 pm Wednesday.
Teaching: Seminar.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3147 The Art of Subversion in Post-War Spain (1939-1975)

Credits: 15 Semester: 2
Availability: 2010-11

Description: This module is designed to introduce students to the complex and fascinating relations between culture and history within the context of post-Civil War Spain, providing them with an interdisciplinary knowledge of that period. In particular, it aims at exploring the value of film and poetry as modes of cultural resistance to dominant political and ideological discourses. In order to do so, we will be looking at the work of a number of key authors in the history of contemporary Spanish literature (such as José Hierro, Ángel González, Gloria Fuertes, Jaime Gil de Biedma, and José Ángel Valente, amongst others) and cinema (typically, L. García Berlanga, J. A. Bardem, B. Martín Patino, V. Erice, C. Saura, etc).

Class Hour: To be arranged.
Teaching: Seminar.
Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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SP3148 The Argentine and Chilean Avant-Garde (1920s-1930s)

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module explores the literary modernisms of two countries of the Southern Cone, Argentina and Chile. It includes close readings of texts by major Latin American authors (Jorge Luis Borges, Oliverio Girondo, Vicente Huidobro, Pablo Neruda). We will study the hybrid nature of these modernisms and identify the different and often opposed aesthetic traditions upon which they are constructed. Also, we will see how Borges projects hybridization as the natural process in the production of culture in Latin America and beyond, thus contesting the distinction between central (European/North American) and peripheral (Latin American) cultures.

Class Hour: 3.00 pm – 4.30 pm Tuesday.

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3157 Autobiographical Writing in 20th Century Spain

Credits: 15 Semester: 2

Availability: 2010-11

Description: In this module the exploration of autobiographical writing in contemporary Spain has multiple objectives. It will provide an introduction to the problems and characteristics of autobiographical writing as an important literary genre. These theoretical tools will be applied to a problematic and ambiguous example (*Lazarillo de Tormes*) as well as to the works of major writers who have had an impact on their society (Rafael Alberti, Carmen Martín Gaité, Terenci Moix). It will also consider the texts as interventions in the cultural and historical context as well as identity debates in contemporary Spain. In this context, exile, popular culture, collective identity and the relations of genre and gender will be studied in relation to autobiographical writing.

Class Hour: 9.00 am – 10.30 am Wednesday

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3159 Gender and Violence in Golden Age Literature

Credits: 15 Semester: 1

Availability: 2010-11

Description: This module will examine how conflicts and cultural tensions in the Spanish Habsburg Empire are reflected and acted out in Golden age literature. The students will focus on the representation of violence and its fascinating and disturbing relation to gender and power in texts drawn from different literary genres, such as autobiographical writing (e.g. Catalina de Erauso, the "lieutenant nun"), narrative literature (e.g. María de Zayas, Miguel de Cervantes), theatre (e.g. Cervantes, Lope, Calderón) or poetry (e.g. Garcilaso de la Vega). The module involves the discussion of critical approaches developed within the framework of Queer and Gender Studies.

Class Hour: 3.00 pm – 4.30 pm Tuesday

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3160 Facing the New: Spanish Literature and Society (1888 - 1918)

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module will explore changes and tensions in Spanish culture, society, literature and art from the evolution of literary realism and naturalism to the beginning of the historical avant-gardes and the First World War. Through varied materials (poems, short stories, novels, plays, paintings, etc.) students will discuss the transformations of the role of the artist and the intellectual, the modernist 'tradition of the new' and the aesthetical currents of the era. The module will focus on specific literary examples (the novels by Miguel de Unamuno and José Martínez Ruis 'Azorin') as well as the cultural and artistic life of the times through the analysis of literary magazines.

Class Hour: 11.00 am – 12.30 pm Wednesday.

Teaching: Seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3198 Spanish Dissertation (Science)

Credits: 15 Semester: Either

Prerequisites: Admission to the Honours Programme with Integrated Year Abroad.

Anti-requisites: SP3111, SP3112, SP4198

Co-requisites: 45 credits in modules offered in the Faculty of Science.

Description: This is a self-access module designed for students spending study periods or work placements away from St Andrews in connection with their Honours course in Science. Because such periods away may arise in any of the two semesters of the Junior Honours, this module may be taken in place of any one of modules SP3111-SP3112. It will be assessed by dissertation in Spanish (3000-3500 words) on an approved topic.

Class Hour: not applicable

Assessment: Continuous Assessment = 100%

SP3221 Language, Conflict and Society

Credits: 15 Semester: 1

Co-requisite: SP3001 for Single, Major and Joint Spanish programmes

Description: This module aims to provide a sound understanding of important modes of literary expression in Spain and Spanish America following a source of conflict across the centuries. The syllabus will involve the study of a selection of canonical texts from Spain and Spanish America which is likely to include works by Fernando de Rojas, Alarcón, Emilia Pardo Bazán, Camilo José Cela or the Mexican playwright Usigli.

Class Hour: 9.00 am Tuesday, plus one seminar to be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP3222 Language, Love and Loss

Credits: 15 Semester: 2

Co-requisite: SP3002 for Single, Major and Joint Spanish programmes

Description: This module aims to provide a sound understanding of important modes of literary expression in Spain and Spanish America following an expression of emotional tension across the centuries.. The syllabus will involve the study of a selection of canonical texts from Spain and Spanish America which is likely to include works by Jorge Manrique, Gustavo Adolfo Bécquer, Garcilaso, Leopoldo Alas and Delmira Agustini.

Class Hour: 9.00 am Tuesday, plus one seminar to be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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SP4003 Spanish Language III

Credits: 15 Semester: 1
Prerequisite: SP3002 or SP3202 (see Honours Adviser if there is a problem)

Anti-requisites: SP4102, SP4103, SP4113

Co-requisite: SP4223 for Single and Major Spanish programmes.

Description: The overall objective of this core module is to build on advanced skills in listening, speaking, reading and writing in Spanish. The syllabus is made up of a selection of texts in different registers (fiction, topical magazines, interviews, economic and political reports from newspapers) which provide the basis for both written and oral work in class.

Class Hour: 9.00 am Thursday, plus one practical to be arranged.

Teaching: One class and one practical.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP4004 Spanish Language IV: Communication Skills

Credits: 15 Semester: 2

Prerequisite: SP4003, SP4103 or SP4203

Anti-requisites: SP4114

Co-requisite: SP4224 for Single and Major Spanish programmes

Description: The overall objective of this core module is to build on advanced skills in listening, speaking, reading and writing in Spanish. The syllabus uses listening comprehension based on recording, debates and oral presentations by students, and a selection of texts for the study of different linguistic registers (including dialogues from fictional works, essays, and translation and rewriting of texts using a different style). The final oral examination will form part of this module.

Class Hour: 9.00 am Thursday, plus one practical to be arranged.

Teaching: One class and one practical.

Assessment: Continuous Assessment = 40%, One Oral plus one 2 Hour Examination = 60%

SP4008 Contemporary Spanish Language

Credits: 15 Semester: 2

Description: The module builds on the skills of the four Honours core language courses whose overall objective is to promote the advanced communicative skills of listening, speaking, reading and writing in Spanish. Its objective is to stimulate creative writing in Spanish in a variety of linguistic registers. The syllabus is made up of a selection of texts in different registers (but drawn basically from fiction and commercial writing) which provide the basis for creative writing exercises.

Class Hour: 9.00 am Thursday.

Teaching: One class.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP4012 Linguistic Study of the Spanish Language

Credits: 15 Semester: 2

Availability: 2009-10

Description: This module presents the scientific approach to describing languages as well as the concept of linguistic variability and some of its salient manifestations in Spanish across the Hispanic world. Structural features will be treated at phonological, morphological, syntactic and lexico-semantic levels, and variation will be examined at geographical, social and stylistic levels.

Class Hour: 2.00 – 3.30 pm Friday.

Teaching: One class.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP4098 Dissertation on a Spanish Topic

Credits: 15 Semester: Either

Anti-requisite: SP4099

Description: This module offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Critical Review involves the evaluation of a range of secondary material on a given subject. It should be 5,000 – 6,000 words in length, be submitted in accordance with guidelines and deadlines, and normally written in English. The topic must be formally agreed in advance with the research co-ordinator and potential supervisor.

Class Hour: To be arranged.

Assessment: Dissertation = 100%

SP4099 Long Dissertation on a Spanish Topic

Credits: 30 Semester: Whole Year

Anti-requisites: SP4098, IT4099, FR4199, GM4099, RU4199

Description: The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with both the research co-ordinator and the potential supervisor.

Class Hour: To be arranged.

Assessment: Dissertation = 100%

SP4102 Semester with Study Abroad in Spain

Credits: 30 Semester: 1

Prerequisites: SP3202 or SP3002

Anti-requisites: SP4203 or SP4003

Co-requisites: SP4099

Description: The objective of the module is to allow students who are unable to take a year or a semester away from St Andrews in a Spanish-Speaking country to spend one term (September to December) studying in Spain at an institution with which we have a SOCRATES exchange. The students will take a range of approved courses at the host university, Universitat Pompeu Fabra in Barcelona. They will also take SP4099, Spanish Dissertation; a dissertation topic will have been negotiated with their tutors before the summer recess. Preparation for SP4099 will be carried out during their stay in Spain, and continued in St Andrews during January and Semester 2. If places are available, the module can also be open to students who spent their WIYA year at a non-Spanish-speaking country, but not to those who have already spent a SOCRATES year.

Class Hour: To be arranged.

Teaching: By arrangement

Assessment: Continuous Assessment = 100%

SP4103 Residential Project in Spanish Speaking Country

Credits: 15 Semester: 1

Prerequisites: SP3002 or SP3202

Anti-requisites: SP4003, SP4203, SP3101

Description: The object of the module is language learning and cultural familiarisation through self-access residence in Spain or Spanish America. The student will spend six weeks in a Spanish-speaking country during the summer vacation. There will be an approved project, so that the process of understanding and writing in Spanish is conscientiously and formally addressed. It will be written up on the student's return and in lieu of SP4003 or SP4203. The project will not exceed 6,000 words, although recorded material and its transcription may be supplementary.

Assessment: Project = 100%

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SP4113 Honours Spanish III (Science)

Credits: 15 Semester: 1

Prerequisites: SP3112

Anti-requisites: SP4003, SP4103, SP4203, SP4198

Co-requisites: 45 credits in modules offered in the Faculty of Science.

Description: This module is part of the Honours core language course and it further develops the advanced communication skills, spoken and written, introduced in SP3111/2 module. Material will focus on Science issues and the four skills of reading, listening, speaking and writing are further developed through prepared work, class activities and language practicals. The syllabus will be based on a selection of relevant scientific texts from both Spain and Latin-America which will be used as sources for the study of the Spanish language.

Class Hour: To be arranged.

Teaching: Language classes

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

SP4114 Honours Spanish IV (Science): Communication Skills

Credits: 15 Semester: 2

Prerequisites: SP4113

Anti-requisites: SP4004, SP4204, SP4198

Co-requisites: 45 credits in modules offered in the Faculty of Science.

Description: This module is part of the Honours core language course whose overall objective is to promote advanced skills in listening, speaking, reading and writing in Spanish. Material will focus on Science issues and the four skills are further developed through prepared work, class activities and language practicals. The syllabus will be based on a selection of relevant scientific texts from both Spain and Latin-America which will be used as sources for the study of the Spanish language. The final oral examination will form part of this module.

Class Hour: To be arranged.

Teaching: Language classes

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

SP4198 Spanish Dissertation (Science)

Credits: 15 Semester: 1

Availability: 2009-10

Prerequisites: Admission to the Honours Programme with Integrated Year Abroad.

Anti-requisites: SP4097, SP4098, SP3198

Co-requisites: 45 credits in modules offered in the Faculty of Science.

Description: This is a self-access module designed for students spending study periods or work placements away from St Andrews in connection with their Honours course in Science. Because such periods away may arise in any of the two semesters of the Senior Honours, this module may be taken in place of any one of modules SP4113-SP4114. It will be assessed by dissertation in Spanish (3000-4000 words) on an approved topic. For students taking this module in the second semester of their final year of study, there will be the possibility, in discussion with the Course Director, for students to take an Oral Examination, for the sole purpose of determining the award of Distinction in Spoken Spanish.

Class Hour: not applicable

Assessment: Continuous Assessment = 100%

SP4223 Language, History and Culture

Credits: 15 Semester: 1

Anti-requisite: SP4103

Co-requisites: SP4002 or SP4103 for Single, Major and Joint Spanish programmes.

Description: This module aims to provide a sound understanding of important modes of literary expression in Spain and Spanish America following the representation of different historical moments through fictions. The syllabus will involve the study of a selection of canonical texts from Spain and Spanish America which is likely to include works such as *El Poema del Mio Cid*, poetry of exile and others by Lope de Vega, José Mármol or Isabel Allende.

Class Hour: 9.00 am Tuesday, plus one seminar to be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

SP4224 Language, Reality & Illusion

Credits: 15 Semester: 2

Anti-requisites: SP4004, SP4204

Co-requisite: SP4004 for Single, Major and Joint Spanish programmes

Description: This module aims to provide a sound understanding of important modes of literary expression in Spain and Spanish America following the conflict of reality and illusion across the centuries. The syllabus will involve the study of a selection of canonical texts from Spain and Spanish America which is likely to include works by Miguel de Cervantes, Luis de Góngora, Antonio Buero Vallejo, Juan Carlos Onetti or Juan Rulfo.

Class Hour: 9.00 am Tuesday, plus one seminar to be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

School of Philosophical, Anthropological & Film Studies

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours Programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Students who entered the Honours Years of their programmes in 2004-05 should consult with a Philosophy Adviser to determine the correct modules to take this year.

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Film Studies and one of Ancient History, Arabic, Art History, Biblical Studies, Classical Studies, Economics, English, French[^], Geography, German[^], International Relations, Italian[^], Modern History, Philosophy, Psychology, Russian[^], Scottish History, Social Anthropology, Spanish[^] or Theological Studies</p> <p>[^] Available With Integrated Year Abroad – see Modern Languages.</p>	<p>Film Studies element of Joint Honours Degrees:</p> <p>Level 1: 40 credits comprising passes in FM1001 and FM1002</p> <p>Level 2: 40 credits comprising passes at 11 or better in FM2001 and FM2002.</p> <p>Level 3: At least 30 credits, including a pass in the Film Studies Honours core module FM3001</p> <p>Level 4: 60 credits from Film Studies 4000-level modules, plus another 30 approved credits.</p> <p>Other information: A total of 120 credits must be taken in 3000-level and 4000-level modules in Film Studies, save that with the permission of the Director of Teaching of Film Studies and the relevant Head of School, students may substitute up to 30 credits from a third School or subject for 30 Film Studies credits. Students must ensure that their Joint Honours programme results in at least 90 credits at 4000-level.</p> <p>In total 240 credits must be achieved at 3000 level and 4000 level with at least 90 credits at 4000 level.</p> <p>Students not on an Honours programme in Film Studies may still take Honours modules at the discretion of the Film Studies Department.</p> <p>The Department is willing to consider requests from students interested in dip-across on the basis of 40 credits at 1000 level or 2000 level (including FM1001).</p>

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Psychology with Film Studies</p>	<p>Film Studies element of Minor Degrees:</p> <p>Level 1: 40 credits comprising passes in FM1001 and FM1002</p> <p>Level 2: 40 credits comprising passes at grade 11 or better in FM2001 and FM2002</p> <p>Level 3: 30 credits consisting of a pass in the Film Studies Honours core module FM3001</p> <p>Level 4: 30 credits from Film Studies Honours modules at 4000-level, plus another 30 approved credits.</p> <p>Other information: A total of 90 credits must be taken in 3000-level and 4000-level modules in Film Studies, save that with the permission of the Director of Teaching of Film Studies and the relevant Head of School, students may substitute up to 30 credits from a third School or subject for 30 Film Studies credits. Students must ensure that their Joint Honours programme results in at least 90 credits at 4000-level.</p> <p>In total 240 credits must be achieved at 3000 level and 4000 level including at least 90 credits in 4000-level modules.</p>
<p>(M.A. Honours): Philosophy</p>	<p>Single Honours Philosophy:</p> <p>Level 1: At least 40 credits from PY1001-PY1106, to include either PY1006 or both PY1001 and PY1003.</p> <p>Level 2: At least 40 credits at 11 or better from PY2001-PY2103.</p> <p>Level 3: 60 credits comprising PY3701 and PY3702</p> <p>Level 4: At least 120 credits from PY4000-PY4999, ID4859, CL4444 and CL4452.</p>
<p>(M.A. Honours): Philosophy and Ancient History, Arabic, Art History, Biblical Studies, Classical Studies, Classics, Economics, English, Film Studies, French[^], Geography, German[^], Greek, International Relations, Italian[^], Latin, Management, Mathematics, Mediaeval History, Modern History, Psychology, Russian[^], Scottish History, Social Anthropology, Spanish[^], Statistics, Theological Studies.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Philosophy element of Joint Degrees:</p> <p>Level 1: At least 40 credits from PY1001-PY1106, to include either PY1006 or both PY1001 and PY1003.</p> <p>Level 2: At least 40 credits at 11 or better from PY2001-PY2103.</p> <p>Level 3: At least 30 credits from PY3701 and/or PY3702</p> <p>Level 4: EITHER at least 60 credits from PY4000-PY4999, CL4444, CL4452 and ID4859, OR a further 30 credits from either PY3701 or PY3702, and at least 30 credits from PY4000-PY4999, CL4444, CL4452 and ID4859.</p> <p>Other Information: In total (between the two Schools) 210 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Logic & Philosophy of Science and Computer Science, Internet Computer Science, Mathematics, Physics, Statistics.</p>	<p>Philosophy element of Joint Degrees: Levels 1& 2: At least 60 credits from PY1005-PY1106 and PY2001-PY2103, to include: Level 1: Either PY1006 or both PY1001 and PY1003. Level 2: Passes at 11 or better in PY2001 and PY2002. Level 3: 30 credits from PY3701 Level 4: at least 60 credits from PY3702, PY4000-PY4999, ID4859, CL4444 and CL4452. Other Information: In total (between the two Schools) 210 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p>
<p>(M.A. Honours): Social Anthropology</p>	<p>Single Honours Social Anthropology Degree: Level 1: At least 20 credits comprising a pass in at least one from SA1001 or SA1002 Level 2: 40 credits comprising passes at grade 11 or better must be achieved in SA2001 and SA2002. Level 3: 120 credits comprising 90 credits in Level 3 Social Anthropology modules, plus 30 further approved credits [students going on to take SA4099 must take SA3506] Level 4: 30 credits from SA4098 or SA4099 plus 90 further credits in Social Anthropology Honours modules of which at least 60 must be in 4000-level modules. Other Information: In total 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p>
<p>(M.A. Honours): Social Anthropology and Arabic, Art History, Classical Studies, Economics, English, Film Studies, French[^], Geography, German[^], International Relations, Italian[^], Mediaeval History, Middle East Studies, Modern History[~], Philosophy, Psychology, Russian[^], Scottish History, Spanish[^],[~], Theological Studies.</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>[~]Timetable clash exists therefore this combination is subject to arrangement with both departments.</p>	<p>Social Anthropology element of Joint Honours Degrees: Level 1: At least 20 credits comprising a pass in at least one from SA1001 or SA1002 Level 2: 40 credits comprising passes at grade 11 or better must be achieved in SA2001 and SA2002. Level 3: 30 credits from Level 3 Social Anthropology modules, plus 30 further approved credits [students taking SA4099 must take SA3506 as well as one of the prerequisite core theory 3000-level modules] Level 4: 30 credits from SA4099, SA4098 or another 4000-level module, plus 30 further credits in Social Anthropology Honours modules in 4000-level modules Other Information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules</p>

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Social Anthropology with Geography or Linguistics*</p> <p>* This combination is not available for entrant students after 2009</p>	<p>Social Anthropology element of Major Degree Programme:</p> <p>Level 1: At least 20 credits comprising a pass in at least one from SA1001 or SA1002</p> <p>Level 2: 40 credits comprising passes at grade 11 or better must be achieved in SA2001 and SA2002.</p> <p>Level 3: 60 credits from Level 3 Social Anthropology, plus at least 30 further approved credits [students going on to take SA4099 must take SA3506]</p> <p>Level 4: 30 credits from SA4098 or SA4099, plus 30 further credits in Social Anthropology modules in 4000-level modules.</p> <p>Other Information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p>
<p>(M.A. Honours): Economics with Social Anthropology,</p> <p>Geography with Social Anthropology</p>	<p>Social Anthropology element of Minor Degree Programmes:</p> <p>Level 1: At least 20 credits comprising a pass in at least one from SA1001 and SA1002</p> <p>Level 2: 40 credits comprising passes at grade 11 or better must be achieved in SA2001 and SA2002.</p> <p>Level 3: At least 30 credits from one 3000-level Social Anthropology module</p> <p>Level 4: At least 30 credits from one 4000-level Social Anthropology module</p> <p>Other Information: In total (between the two Schools) 240 credits are required at 3000 level and 4000 level of which at least 90 credits must be achieved in 4000-level modules.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Film Studies (FM) Modules

FM3001 Contemporary Film Theory

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module examines the diverse range of film theories that have emerged since the 1970s. It charts the various different theoretical directions that Film Studies has explored, and introduces the various contexts (historical, political and methodological) from which these approaches were drawn. The types of theory explored will typically include the study of masculinity, post-feminist approaches to popular genres, queer theories, post-colonial critiques of western cinema, third cinemas, the examination of national and transnational cinemas, philosophical approaches to film, the study of expanding global markets, and diasporic and minority audience practices.

Class Hour: To be arranged.

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

FM4099 Film Studies Dissertation

Credits: 30 Semester: 1
Availability: 2009-10
Prerequisites: Available only to students in the Second Year of the Honours Programme.
Anti-requisite: Any other 4000-level dissertation module.

Description: This dissertation offers students the possibility of personal advanced study on a topic in Film Studies on which they already have adequate basic knowledge and for which a suitable supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a given body of primary material in a defined perspective. Its length should be 10,000 words maximum. It should be submitted in accordance with guidelines and deadlines, and be written in English. The topic must be agreed in advance by the Chairman of Department following a favourable report from the Supervisor, whom students should contact in the first instance.

Class Hour: 12.00 noon - 2.00 pm Friday
Teaching: Two hour seminar plus individual meetings with supervisor.
Assessment: Continuous Assessment = 100%

FM4101 Time, National Identity and Cinema

Credits: 30 Semester: Either
Availability: Not available 2009-10

Description: This module examines films that use multiple, reversed or otherwise disrupted narratives to construct images of national identity. Films studied typically include, Hitchcock's *Vertigo* (1958), Fellini's *8 1/2* (1963), *Sliding Doors* (1997), *Run Lola Run* (1998), *Eternal Sunshine of the Spotless Mind* (2003), *Terminator 3* (2003), *The Butterfly Effect* (2004), and Hideo Nakata's *Chaos* (1999), but the selection of texts may vary. Using a methodology derived from Gilles Deleuze's philosophy, the module analyses the formal construction of narrative time in each film, and the use of character memory to represent the national past. It also interrogates the different ways in which each film addresses historical transformations that affect national identity, such as the cold war, globalisation, the first Gulf War, 9/11 and the collapse of the Asian tiger economies in the 1990s.

Class Hour: To be arranged
Teaching: Two hour seminar plus screening.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4102 Film, Politics and Cultural Histories

Credits: 30 Semester: Either
Availability: Not available 2009-10

Description: This module shall examine the relationship between the development of film as a discipline, the formation of film canons, and the political deployment of film in different contexts, from World War II onwards. We will be looking at the ways in which the rise of national and transnational film cultures sits at the centre of cultural exchange and identity politics in both Western and non-Western contexts. Topics examined typically include aesthetic and audience-driven approaches to cinephilia, the impact of the French magazine *Cahiers du cinéma* and of May 68 on film culture, the transnational underpinnings of the rise of art cinemas in the 1960s, oppositional practices in Eastern European cinemas, the proliferation of film festivals, alternative circuits of distribution and consumption in Asia and Africa, or the impact of new digital technologies on film (sub-)cultures.

Class Hour: To be arranged
Teaching: Two hour seminar plus screening.
Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

FM4103 Film and Media

Credits: 30 Semester: Either

Availability: Not available 2009-10

Description: This module looks at the workings of media and a range of related theories (newsworthiness, agenda setting, gatekeeping) as they have been represented through the medium of cinema. The consideration is mostly of American films, typically those dealing with corporate media (*Network*, *Broadcast News*), investigative journalism (*The Killing Fields*), media and politics (*Manufacturing Consent*, *War Room*), media and war (*Wag the Dog*, *Outfoxed*, *Control Room*), ethics and journalism (*Shattered Glass*), and reality TV (*The Truman Show*, *EdTV*). It also explores the treatment of media-related issues in the traditions of Britain (*The Day Today*, a satire on broadcasting conventions) and Germany (*Mother Küsters Goes to Heaven*, *The Lost Honour of Katharina Blum*, both raising issues of intrusion of privacy).

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4104 Film and History

Credits: 30 Semester: Either

Availability: Not available 2009-10

Description: This module will bring together the study of historiography with an investigation of feature and documentary filmmaking and will explore themes at the core of intense public and academic debates. Topics typically include the ideological functions of historical super productions, Hollywood and history, controversial novel adaptations, biography and heroic protagonist, the ordinary individual in the context of history, propaganda, trauma and remembrance, sites of memory, film as a first draft of history, as well as issues of speculation on 'history that has not yet happened', the conjectures on 'denial history' and the 'clash of civilisations'. The attention will be on theories looking into the way historical narratives are constructed, as well as on the practice of teaching history via the medium of film.

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4105 Representing the Holocaust

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: Representing the Holocaust in film is not only big business, it is one of the principal means through which the past is produced for and maintained in the public imagination. In this class, we will explore film's role in producing our relationship to distant social trauma, focusing on the Holocaust but engaging with issues of present day representations of war, atrocities, and genocide. Issues covered in this module include: film as witness, cinematic approaches to trauma, the ideological implications of style and genre, repercussions of technological innovation, and the role of film as historian and keeper of cultural/national memory.

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

FM4106 War and Cinema

Credits: 30 Semester: Either

Availability: Not available 2009-10

Description: From Norman McLaren's classical animated treatise on conflict *Neighbours* (1952) to films on present-day terrorism (for example, India's *The Terrorist*, 1999), this module will focus on the changing representations of war and international conflict in cinema. We will look at classical Western and non-Western films about World War I and World War II (typically including films like, *Sahara*, *Paisa*, *Bridge on the River Kwai*, *Come and See*, *Stalingrad*) and discuss the cinematic treatment of war-time mismanagement (for example *A Bridge Too Far*, *Charge of the Light Brigade*) as well as explore films looking into various national liberation struggles, at the evolving representations of the Vietnam war in American cinema, and at the depictions of more recent conflicts such as the wars in Bosnia, Rwanda and Iraq. Other issues that we will discuss in the context of cinematic representation include media and war, justice and reconciliation in a war's aftermath, satirical interpretations of war, and various explanatory frameworks on conflict (cold war, political economy, clash of civilisations).

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4107 Cinema and Nation

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module addresses the central notion that a national cinema can be more fruitfully understood in terms of the conflicts and discrepancies within a given culture to which its constituent films give a voice. These conflicts point to the fact that film does not simply represent the homogeneous characteristics of a national culture: national cinemas can be seen as sites of contestation where the meanings and interpretations of national culture and history can be debated, dismissed or fortified. As a site, the cinema can be conceptualized as a public arena where the meanings of a culture are negotiated, not simply disseminated. What has been forgotten, what has been elided, and what should be remembered? What is the relationship between these cultural histories and the work of individual filmmakers? The module will introduce different methodologies for the study of national cinemas, either through a specific national cinema (such as the cinemas of Britain, Canada, India, Italy, South Korea or Spain) or through a comparative focus. Case studies will vary from year to year depending on staff availability. For further details, students are advised to contact module coordinator.

Class Hour: Seminars: 10.00 am - 12.00 noon Monday, Screenings: 7.00 - 10.00 pm Friday

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4108 Digital Cinema

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: This module provides an examination of how digital technology has transformed every aspect of the film industry, and of how these transformations have subsequently affected film studies. For digital technology (computers, cameras, etc) has shaped not just the Hollywood film industry, but all film industries everywhere, at all stages of film production, distribution and exhibition, and in all genres. The module will take in a range of films and other texts from different regions, including the USA, Europe and Asia, straddling big budget spectacles, costume dramas, documentaries, games and more.

Class Hour: Seminars: 10.00 am - 12.00 noon Monday, Screenings: 7.00 - 10.00 pm Friday

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

FM4201 Japanese Cinema after WWII

Credits: 30 Semester: Either

Availability: Not available 2009-10

Description: Already the most widely discussed of all Asian cinemas, the 1990s saw a resurgence of worldwide popularity for Japanese cinema. This module will examine the national cinema that produced *Ring* (1996), *Audition* (1999) and *Battle Royale* (2000), focusing on the formal and thematic development of post-war Japanese cinema. A range of art films and popular genres will be examined, including works by auteurs like Ozu, Kurazawa, Kitano and Ichikawa, but also, typically, Godzilla films, Manga animation, yakuza gangster films, pink films, and the samurai tradition. Each film will be analysed in relation to the socio-political context in which it emerged, from the American dominated 1940s through the years of the bubble economy to the present day.

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4202 The Cinema in Eastern Europe

Credits: 30 Semester: Either

Availability: Not available 2009-10

Description: This module explores the cinema of what, after the rapid disintegration of the cultural entity of the so-called East bloc, came to be known as East Central Europe. We explore the cinematic traditions of Poland, Hungary, and Czechoslovakia during the period of state socialism (1945 – 1989) and the post-1989 changes, when the idea of Central Europe as unique cultural space was revived and re-constituted. By mapping out the key concerns, thematic spheres and stylistic particularities that make the cinema of East Central Europe part of the European tradition, we will encourage an inclusive and comprehensive understanding of European cinema, much needed for the new ‘enlarged’ Europe. The work of a versatile range of directors will be covered (typically including films by Szabó, Jancsó, Mészáros, Nemeč, Jakubisko, Zanussi, Kieslowski, Wajda, Munk, Fábri, Sverák, etc.), as well as debates regarding the representation of history and memory, the reassessment of political content, the rehabilitation of popular cinema, and the rethinking of national and regional cinemas in the context of globalization.

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4203 American Independent Cinema

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: In recent years the American Independent film has become very popular, with films like *Memento* (2000), *Donnie Darko* (2001) and *Secretary* (2003) all very commercially successful. Yet what makes these films independent? Is it a subversive “spirit”, a minimal budget, or a combination of the two? This module explores the ramifications of this question, by examining the long tradition of American independent cinema. Directors discussed could include Maya Deren, Russ Meyer, John Cassavetes, Haile Gerima, John Waters, Martin Scorsese, and Harmony Korine and others. The module examines how independent films create various different aesthetic templates with which to examine issues like gender, race and sexuality, whilst simultaneously experimenting with the medium of film itself. It also examines the American film industry’s long and complex relationship with the independent film.

Class Hour: Seminars: 12.00 noon - 2.00 pm, Screenings : 7.00 pm - 10.00 pm Thursday

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

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FM4204 Asian Cinemas

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module introduces a range of Asian cinemas. Countries covered typically include Hong Kong, South Korea, China, India and Iran. It examines the way in which different Asian film industries have emerged, and historically contextualizes the industrial strategies for production and distribution they have adopted. In this way, both their national and their global market positions are analysed without recourse to negative comparisons with Hollywood. The different types of film studied typically range from Hong Kong action and kung fu films, to South Korean wrestling comedies, Bollywood films, and Iranian and Chinese art films. Occasionally Taiwanese melodramas or works of new Thai cinema will also be incorporated. By discussing how the different aesthetics created by these cinemas are specific to their contexts, this module questions the universal applicability of concepts previously developed in film studies.

Class Hour: 2.00 - 4.00 pm Thursday.

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4205 Scotland and Cinema

Credits: 30 Semester: 2

Availability: 2009-10

Description: Since the 1990s there has been a resurgence in the number of films either produced or set in Scotland. These vary in style from, for example, *Braveheart* (1995) to *Trainspotting* (1995), *Orphans* (1997), *Loch Ness* (1994) and *Dog Soldiers* (2001). This module examines the American, British and European cinematic traditions that influenced these and other such representations. Consequently it analyses both popular and art films previously set in Scotland, typically examining the works of directors like John Grierson, Alexander Mackendrick, Bill Forsyth and Bill Douglas, to cult classics like *The Wicker Man* (1972), *Highlander* (1986) and the musical *Brigadoon* (1954). The module also focuses on how political events (for example, the recent devolution of lottery money distribution) have influenced the cinematic representation of Scotland.

Class Hour: 10.00 am - 12.00 noon Monday.

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4301 The International Film Industry: Cultural Production and Distribution

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: In response to political transitions, mass migrations, and technological innovations that transform cultural industries across the world, recent years also brought far-reaching changes in the global marketing of the moving image. Even though Hollywood appears to be a dominant force, its supremacy is contested as smaller but numerous film cultures come to act as its counter-flows on the international arena (for example, Bollywood, Hong Kong cinema, European art film). This module will explore the key debates and decisive issues concerning the international dynamics in the production and dissemination of films, as well as the leading critical approaches to film as a major form of transnational cultural product (political economy; globalisation).

Class Hour: Seminars: 10.00 am - 12.00 noon Monday

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

FM4302 Contemporary Period Drama

Credits: 30 Semester: 2

Availability: Not available 2009-10

Description: The high-profile success of international films such as *Cyrano de Bergerac* (1990), *Howards End* (1992), *Orlando* (1992), *The Piano* (1993), or *Shakespeare in Love* (1998) has pushed contemporary period drama to the centre stage of the debates about cultural identity and the representation of the national past. These so-called 'heritage films' have often been questioned as nostalgic visions of the past promoted by a convergence of institutional and economic interests. However, the enduring popularity and sophistication of many of these films has also been the motor of provocative explorations from the angle of intertextuality and the reinscription of gender, class and post-colonial identities. Through discussion of films by authors like Martin Scorsese, Jane Campion or Ang Lee, this module examines contemporary period drama as a versatile film object and a topical source of debate in an increasingly globalised film culture.

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4303 Documentary Cinema

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module surveys the history of documentary film (technological, stylistic, etc.), while taking up the theoretical debates around cinematic claims to truth and representations of reality. Students will examine how documentary differs from other kinds of filmmaking, how documentaries make 'truth claims', and how these claims influence the ways in which these films are received and circulated. Beginning with the actualities of the Lumiere Brothers, students will be exposed to multiple genres (e.g. ethnographic, civic, cinema vérité, experimental, self-reflexive) and filmmakers (e.g. John Grierson, Dziga Vertov, Jean Rouch, Errol Morris) while addressing the variety of arenas (e.g. scientific, civic, commercial) in which documentary has appeared.

Class Hour: 10.00 am - 12.00 noon Tuesday

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4304 Film and Sexual Identities

Credits: 30 Semester: 1

Availability: Not available 2009-10

Description: This module aims at introducing students to the issues of sexual identities in filmic texts, to the notion of queer cinema, and to a representative corpus of films, drawn from different cinematic traditions, where sexuality and sexual orientation inform narrative and visual structures. The module will raise questions about the representation of alternative sexualities on screen, considering their implications for the construction of spectatorship, the filmic gaze, and for the wider cultural issues surrounding social identities. Students will be introduced to queer theory and to a body of relevant critical material, and will be encouraged to apply these theoretical structures to the study of cinema's diverse treatment of sexual identity. Films studied may typically include *The Rocky Horror Picture Show* (Jim Sharman, 1975), *My Beautiful Laundrette* (Stephen Frears, 1985), *Ma Vie En Rose* (Alain Berliner, 1995), *All About My Mother* (Pedro Almodovar, 1999).

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

Philosophical, Anthropological & Film Studies – Honours 2009/10 – August 2009

FM4305 The Divided Self: Cultural Identity in Auteur Cinema

Credits: 30 Semester: 1

Availability: 2009-10

Description: This specialist module aims at introducing students to the application of auteur theory to the study of film, to the associated critical debates, and to the use of auteur cinema as a platform for the exploration of issues of identity and dislocation. The corpus of films selected aims at providing a diverse and comparative basis for the students' experience of auteurist cinema; the module will typically include material from well-known directors, such as *The Passenger* (Michelangelo Antonioni, 1975), and *The Double Life of Veronique* (Krzysztof Kieslowski, 1991) as well as films by seminal auteurs who may be less known to the students, such as *Pyaasa* (Guru Dutt, 1957) and *Yol* (Yilmaz Güney, 1982)

Class Hour: 10.00 am - 12.00 noon Monday

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

FM4306 Women and Film

Credits: 30 Semester: Either

Availability: Not available 2009-10

Description: This module looks at issues of gender in the study of film through the theories and debates raised by cinematic representations of women and films made by women. The module covers key developments in feminist film theory and criticism since the 1970s, typically examining images of women in popular cinemas, women as independent and oppositional/minority filmmakers, or masculinities in feminist theory. In each seminar, a specific film will be studied in the light of a theoretical or critical essay (s) covering a range of approaches such as authorship, semiotics, psychoanalysis, reception studies and consumer cultures. We will examine how the analysis of gender intersects with representations of class, sexuality and nation in diverse modes of film production, from classical Hollywood, to art cinema and the avant-garde.

Class Hour: To be arranged

Teaching: Two hour seminar plus screening.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

InterDisciplinary (ID) Modules

ID4801 Human Rights, Poverty and Security

Credits: 30 Semester: Either

Availability: 2011-12. Available only to International Relations and Philosophy students only

Description: There has recently been a move within political philosophy and international political theory to re-conceive severe poverty as a violation of human rights (with a consequent emphasis on responsibility, accountability, and abolition). This module will examine the new challenges to traditional understandings of human rights, and their implications for international social and political institutions. To explore how this debate manifests itself in the public culture and discourse, we will engage many textual sources, including promotional materials from human rights campaigns and documents from the United Nations and other international organisations, as well as other media including regular film screenings.

Class Hour: To be arranged.

Teaching: Two hour lecture and seminar.

Assessment: Continuous Assessment = 100%

Philosophy (PY) Modules

CL4444 Pleasure, Goodness and Happiness: Hellenistic Ethics

Credits: 30 Semester: 2

Availability: 2009-10

Description: This module will explore the ethical thought of the Hellenistic period, a key phase in the development of Graeco-Roman culture. We shall examine some of the most sophisticated and influential moral theories of antiquity, principally those of the Epicureans, Stoics and sceptics. The core text will be Cicero's *On Moral Ends*. The module will include the following topics: the nature and value of pleasure; friendship and society; the fear of death; virtue and vice; happiness; human development; moral psychology; life without beliefs. All primary texts will be available in English translation.

Class Hour: To be arranged.

Teaching: Two seminars.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY3701 Language and Reality

Credits: 30 Semester: 1

Anti-requisite: PY3004

Description: This module covers a range of foundational issues in the philosophy of language and metaphysics. The language component will focus on some of the following questions: What is meaning? Is there a distinction between meaning and reference? What are the puzzles of reference and how should we best solve them? Is there a distinction between what is said and what is implied? The reality component will focus on some of the following questions: What is an object? What is existence? How do objects change and persist? How should we distinguish universals from particulars? Are there universals? What is time? What is causation? What is a law of nature?

Class Hour: Wednesdays 11-1 (seminar time to be arranged).

Teaching: One 2 hour lecture and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY3702 Value and Normativity

Credits: 30 Semester: 2

Anti-requisite: PY3102

Description: This module will deal with a range of core debates in recent philosophy concerning the nature of normativity and value. They will be approached through study of contemporary work in meta-ethics. Meta-ethical positions to be discussed will include realism and irrealism, expressivism and cognitivism, internalism and externalism in moral psychology.

Class Hour: Mondays 11-1 (seminar time to be arranged).

Teaching: One 2 hour lecture and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY3999 Special Topic in Philosophy

Credits: 15 Semester: 2

Prerequisites: two courses in Philosophy taken at Colgate University

Description: A reading of David Hume, Thomas Reid, and Adam Smith on the nature of human action, moral motivation, moral value, and judgement. We will explore debates about the possibility and nature of moral objectivity and their views about the grounding of these issues in different conceptions of human nature.

Class Hour: To be arranged.

Teaching: One lecture per week and seminars fortnightly

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

PY4604 Political Philosophy

Credits: 30 Semester: 1

Anti-requisite: PY4825

Description: This module provides an introduction to central issues in contemporary political philosophy. We begin with an account of John Rawls's liberal egalitarianism, as presented in *A Theory of Justice* (1971) and developed in *Political Liberalism* (1993). Rawls claims that liberalism provides a theory of justice for a modern democratic society that is organized around the principle of fairness. We then examine various critics of Rawls: libertarians, communitarians, feminists, and democrats – before moving on to the philosophical debate that has arisen surrounding pluralism and multiculturalism. Among the questions addressed will be: (1) Is liberalism neutral between reasonable comprehensive doctrines, as Rawls claims? (2) What is the relationship between liberalism and democracy? (3) Can liberalism answer the challenges of multiculturalism?

Class Hour: To be arranged.

Teaching: One 2 hour seminar and a 1 hour tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4606 Contemporary Epistemology

Credits: 30 Semester: 1

Description: Epistemology is a branch of philosophy concerned with the nature of knowledge, rational belief, evidence, and related issues. In this module, we will be discussing some of the most recent and exciting work in contemporary analytic epistemology. Some of the issues we will focus on are: How do contemporary epistemologists deal with the problem of philosophical scepticism? How is perceptual knowledge possible? What are we saying when we say someone 'knows' something? Do we always mean the same thing? What is the relationship between knowledge and our practical interests? Is *a priori* knowledge possible? If so, how?

Class Hour: To be arranged.

Teaching: One 2 hour lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4607 Continental European Philosophy from Descartes to Leibniz

Credits: 30 Semester: 1

Availability: Not available 2009-10

Prerequisite: PY2004

Description: This module will build on the introduction to modern philosophy given in PY2004 ('Modern Philosophy'). It will focus upon the way in which Continental European philosophers of the late seventeenth and early eighteenth century explored the problems inherent in the metaphysics of Descartes. Special attention will be given to questions such as the proper definition of substance; how to understand mind-body interaction, and causation in general; and what the relation between is between God and the universe. The systems of Descartes, Malebranche, and Spinoza will be examined as three very different ways of attempting to develop a coherent set of answers to these questions. In each case an attempt will be made to connect sometimes bizarre metaphysical theses with the ordinary world as experienced by human beings and as explored by natural scientists.

Class Hour: To be arranged.

Teaching: One 2 hour lecture and a one hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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PY4612 Advanced Logic

Credits: 30 Semester: 2
Prerequisite: PY2001
Anti-requisite: PY4816

Description: The module presupposes acquaintance with and facility in the elementary practice of logic as set out in PY2001, and proceeds to consider and prove standard metalogical results, the central one of which is Henkin's proof of the strong completeness of classical first-order predicate logic. There will then be preparatory discussion of elementary set theory, the theory of ordinals and cardinals, and formal semantics. As an introduction to the metatheoretical methods we will consider proof by (mathematical) induction, as it commonly appears in metalogic in proof by induction on the degree (i.e., complexity) of wffs. Following rigorous proof of Henkin's result, we will conclude with examination of the relative expressive power of first-order logic.

Class Hour: To be arranged.

Teaching: Two one-and-a-half hour sessions (one lecture, one examples class).

Assessment: Take-home Examination = 100%

PY4614 Philosophy of Mind

Credits: 30 Semester: 2
Anti-requisite: PY3002

Description: This module introduces topics of central interest in contemporary philosophy of mind. As well as surveying the main twentieth century approaches to the mind-body problem the module will cover various contemporary issues relating to consciousness and intentionality. The module also illustrates the way in which work in other disciplines such as experimental psychology, neuroscience and artificial intelligence can inform philosophical theorising about the mind. Topics may vary slightly from year to year but are likely to include a number of the following: dualism, identity theories, behaviourism, functionalism, folk psychology, the 'Language of Thought' hypothesis, eliminative materialism, connectionism, anomalous monism, mental causation, modularity, phenomenal consciousness.

Class Hour: To be arranged.

Teaching: One 2 hour lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4615 Metaphysics

Credits: 30 Semester: 1
Prerequisites: PY3701 or PY3004
Anti-requisite: PY3007

Description: This module covers a series of inter-related issues in the metaphysics of modality and time. Topics to be discussed include: the metaphysical status of past and future objects; how objects and persons persist through time; the metaphysical status of merely possible worlds and individuals; and questions about identity across possible worlds. Readings from Saul Kripke, David Lewis, Ted Sider, Derek Parfit, and others.

Class Hour: To be arranged

Teaching: One 2 hour lecture and one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4633 Philosophy of Mathematics

Credits: 30 Semester: 1
Anti-requisite: PY4813

Description: The purpose of this module is to introduce students to the basic issues and positions in the philosophy of mathematics. The module will cover the views of historical figures (like Plato and Kant), the major foundational programs that dominated the first half of the twentieth century (logicism, formalism, intuitionism), as well as the contemporary scene.

Class Hour: To be arranged.

Teaching: One 2 hour lecture-seminar and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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PY4635 Contemporary Moral Theory

Credits: 30 Semester: 2

Anti-requisite: PY4808

Co-requisite: PY3702

Description: This module aims to provide a critical appreciation of the main contemporary moral theories. It focuses on the debate between the two main rival impartial moral theories, consequentialism and deontology. It then considers critiques of both these theories and their responses, and some alternative approaches, including virtue ethic, feminist ethics and moral particularism.

Class Hour: To be arranged.

Teaching: One 2 hour lecture and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4638 Philosophy of Religion

Credits: 30 Semester: 2

Anti-requisite: PY4819

Description: This module aims to provide a philosophical understanding of the phenomenon of religion and its relation to other central human activities, studying such topics as religious and cultural diversity, religious experience, belief and justification, faith and reason, religious language, religion and metaphysics, religion and science.

Class Hour: To be arranged

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4639 Philosophy of Creativity

Credits: 30 Semester: 1

Description: This module examines some of the fundamental issues in the philosophy of creativity. Topics typically covered may include the definition of 'creativity'; the relation of creativity to imagination; the nature of the creative process; the relation of creativity to knowledge and skill; whether creativity can be explained; computational theories of creativity; Darwinian theories of creativity; the relation of creativity to tradition; whether creativity is a kind of virtue and its relation to moral and intellectual virtues; and whether creativity differs fundamentally between the arts and the sciences.

Class Hour: To be arranged.

Teaching: One 2 hour lecture and one 1 hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

PY4698 Dissertation (Whole Year)

Credits: 30 Semester: Whole Year

Availability: Available only to students in the second year of the Honours Programme.

Prerequisite: In order to take the dissertation module you must have at least 60 honours Philosophy credits including either PY3701 or PY3702 (these may be studied alongside the dissertation, as co-requisites).

Anti-requisite: PY3803, PY4699, PY4802

Description: This module aims to develop the philosophical skills of literature review, accurate exposition, clear analysis, and critical thinking for oneself, by writing a dissertation on a selected topic, with the supervision of a tutor. A student must secure the agreement of a member of staff to supervise the work, and submit the appropriate application form for the approval of the Honours Adviser before the end of advising in Semester One.

Class Hour: To be arranged.

Teaching: Monthly meetings over two semesters.

Assessment: Dissertation = 100%

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PY4699 Dissertation in Philosophy

Credits:	30	Semester:	Either
Availability:	Available only to students in the second year of the Honours Programme.		
Prerequisite:	In order to take the dissertation module you must have at least 60 honours Philosophy credits including either PY3701 or PY3702 (these may be studied alongside the dissertation, as co-requisites).		
Anti-requisite:	PY3803, PY4698, PY4802		
Description:	This module aims to develop the philosophical skills of literature review, accurate exposition, clear analysis, and critical thinking for oneself, by writing a dissertation on a selected topic, with the supervision of a tutor. A student must secure the agreement of a member of staff to supervise the work, and submit the appropriate application form for the approval of the Honours Adviser before the end of advising in Semester One.		
Class Hour:	Not applicable.		
Teaching:	Fortnightly meetings over one semester.		
Assessment:	Dissertation = 100%		

Social Anthropology (SA) Modules

SA3021 Amerindian Language and Culture

Credits:	30	Semester:	2
Availability:	not available 2009-10		
Prerequisites:	At least 240 First and Second Level credits		
Description:	The module introduces students to the rudiments of an indigenous South American language vastly different from European languages; it outlines salient elements of the culture of which this language is a part.		
Class Hour:	To be arranged.		
Teaching:	One lecture and one 2 hour seminar.		
Assessment:	Continuous Assessment = 50%, 3 Hour Examination = 50%		

SA3031 Anthropological Study of Language and Culture

Credits:	30	Semester:	1
Availability:	not available 2009-10		
Description:	This module examines central theoretical approaches within anthropology that take as their focus issues relating to the analyses of language and of culture. The module concentrates on methodological concerns deriving from theories of language, and it deals with the problems of interpretation of both language and culture as systems of symbols and meanings.		
Class Hour:	To be arranged.		
Teaching:	One lecture, one seminar.		
Assessment:	Continuous Assessment = 50%, 3 Hour Examination = 50%		

SA3032 Regional Ethnography I

Credits:	30	Semester:	2
Availability:	tbc		
Description:	This module focuses on selected ethnographic regions of the world, and investigates the central themes in the anthropological studies of their peoples and cultures.		
Class Hour:	To be arranged.		
Teaching:	One fortnightly lecture, plus two hour seminar.		
Assessment:	3 Hour Examination or take-home Examination = 100%		

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SA3033 Regional Ethnography II

Credits: 30 Semester: 1/2

Availability: tbc

Description: This module focuses on selected ethnographic regions of the world, and investigates the central themes in the anthropological studies of their peoples and cultures.

Class Hour: To be arranged.

Teaching: One fortnightly lecture, plus two hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3046 Anthropology and Development

Credits: 30 Semester: 1/2

Availability: not available 2009-10

Description: This module examines the relationship between anthropology and development, from its beginnings in the late colonial period to recent post-modern critiques. Throughout the module the focus will be upon anthropologist's experiences of development which provide insight into development projects at the level of implementation and bring to light 'local' experiences of development. Using a wide variety of ethnographic sources, the relationship between developers and the people they try to develop is covered in detail. This forms the basis for a discussion of the many problems associated with development in practise. The content of the module is organised chronologically, the main topics of study being: colonial applied anthropology; post-colonial applied anthropology; development anthropology; and the anthropology of development.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3048 The Anthropology of Art

Credits: 30 Semester: 2

Availability: tbc

Description: The module begins by addressing the relations between aesthetic experience and anthropology, and explores what anthropologists can say about aesthetics. It then explores how anthropology emerged from within the Western aesthetic tradition, and the implications of this for social analysis. It goes on to explore specific issues in the anthropology of art such as graphic design and representation, salience and style.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3049 Perception, Imagination and Communication

Credits: 30 Semester: 1

Availability: 2009-10

Description: This module will explore the basic human capacities to see, envision and share knowledge as these are transformed within diverse cultures. We will examine different kinds of evidence - the experience of a blind man regaining sight or the existence of culturally specific forms of madness - asking what these tell us about human perceptual, imaginative and communicative abilities. The module will involve some experimentation along the lines of Bartlett's famous 'War of the Ghosts' memory experience, eschewing reduction either to instinct or to social construction approaches.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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SA3050 Interpreting Social and Cultural Phenomena

Credits: 30 Semester: 1

Availability: tbc

Description: The module focuses on a range of theoretical approaches in social and cultural anthropology. Beginning with Structuralism, which has had a profound influence upon the discipline, the module also examines Post-Structuralist, Interpretive, Semantic and other approaches within anthropology. To achieve a sense of the developments of social theory and of theoretical critique is one of the aims of the module.

Class Hour: To be arranged.

Teaching: One lecture, one seminar, a fortnightly tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3053 Individuality, Community and Morality

Credits: 30 Semester: 2

Availability: tbc

Description: This module examines the place of the individual, of individuality and individualism, in anthropological theory, past and present, and how this is ethnographically applied. In exploring the experiences of contemporary life in such people as English farmers, Scottish islanders, suburban football supporters, counter-urbanites and gypsies, individuality is found to be the key to understanding the meanings in whose terms that life is led. Individual consciousness will be seen to be significantly self-created, and individual agency and identity as importantly independent of particular socio-cultural milieux.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3055 Anthropology and History

Credits 30 Semester: 1

Availability: tbc

Description: The relationship between anthropology and history has been a source of controversy, yet similar problems of representation and knowledge affect both history and anthropology. Is history simply the way we view the past in the present? Is knowledge of past presents and imagined futures also necessary for understanding the underlying dynamics of any ethnographic present? What methods can give us access to different historical voices? Do different conceptions of Time oblige us to question “absolute chronology”? We will examine the importance of studying traces of the past (e.g. archaeology, archives, memory) as part of fieldwork, and the uses of subaltern, micro and counter-factual histories for subverting dominant teleologies.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3056 Melanesian Anthropology

Credits 30 Semester: 2

Availability: 2009-10

Description: Melanesia has long provided anthropology with some of its more challenging ethnographies, and stimulated theoretical developments regarding exchange, kinship, politics, gender and ecology. These domains will be explored through a discussion of the aesthetics of Melanesian sociality, tacking back and forth between current issues and earlier ethnographies, with the aim of apprehending the predicaments of contemporary life. We will also consider the continuing stimulus for anthropology, and discuss recent methodological moves which make deliberate borrowings from Melanesia. One objective will be to describe what a truly Melanesian anthropology would look like.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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SA3057 Sex and Gender

Credits 30 Semester: 1
Availability: tbc

Description: This module provides a cross-cultural perspective on sex and gender, and explores both anthropological and local understandings of personhood, masculinity, femininity and the sexed body. The module links gender relations to wider economic and political processes, and to the exercise of power and of resistance. As well as looking at non-Western societies, the module examines the West, and questions the extent to which Western understandings to do with biology, sex, gender and the body can be used as analytical tools in cross-cultural comparison.

Class Hour: To be arranged.

Teaching: one lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3059 Colonial and Post-colonial Representations

Credits 30 Semester: 2
Availability: 2009-10

Description: How do 'we' see Africa? How does Africa 'look' back? Drawing our examples from visual media, we will explore how the colonial imaginations of Africa, from Tarzan to Tribe, have distorted our knowledge of the continent. How does this particular version of Orientalism work? How does it shape ideas of anthropology, tourism, conservation and development? Has decolonization and post-colonialism changed this? Including the works of such filmmakers as Rouch, Sembene and Teno, we will see how Africa has come to 'shoot' back and challenge the way 'we' see the world.

Class Hour: To be arranged.

Teaching: one lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3060 Contemporary Issues in Social Anthropology

Credits 30 Semester: 1/2
Availability: tbc

Description: This module focuses on selected contemporary issues and debates in social anthropology and examines what these issues contribute to the discipline. The purpose of the module is to provide a forum in which students can learn about theoretical and empirical themes that are at the leading edge of current anthropological research. The content and focus will therefore shift from year to year in line with new intellectual developments in the discipline.

Class Hour: To be arranged.

Teaching: one lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA3061 Reading Ethnography

Credits 30 Semester: 1
Availability: not available 2009-10

Description: This module will help students develop the essential skill of reading ethnography. Its aim is to investigate the distinctiveness of anthropology as a way of knowing the world, and of ethnographic writing as an also distinctive way of constructing and conveying that knowledge. The module will lay bare some of the central, often implicit, codes and conventions of ethnographic writing, and will explore how anthropologists use these to create and transmit knowledge about diverse social worlds. Rather than aiming to impart knowledge, the aim of the module is to provide students with the skills necessary to analyse ethnographies, and to guide them through an investigation into the distinctive qualities of anthropological knowledge.

Class Hour: To be arranged.

Teaching: one lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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SA3062 Anthropology, Indigenous Peoples and Resource Management

Credits: 30 Semester: 2

Availability: not available 2009-10

Description: This module focuses on the social and cultural relations produced by resource management projects, and explores the global and local frames through a series of world-wide case studies of mining, oil, gas and forestry projects. Resource projects have long been important sites of cultural contact, environmental impact and anthropological interest: whether first contact with prospectors, disputes with multinational companies, sustainable development initiatives or civil-society monitoring, resource exploration and extraction has long played an important part in the interface with non-western and indigenous peoples and the forces of globalization. The module also examines the potential for anthropological skills and knowledge to contribute to an industry that has increasingly to account for its social and environmental impacts to a global constituency.

Class Hour: To be arranged.

Teaching: one lecture, two seminars.

Assessment: Continuous Assessment = 67%, 3 Hour Examination = 33%

SA3506 Methods in Social Anthropology

Credits: 30 Semester: 2

Availability: Compulsory module for students studying Single Honours, Joint Honours and Major degrees in Social Anthropology who intend to go on to take SA4099.

Description: This module provides an introduction to the various methods of enquiry and interpretation used in social anthropological research. It aims to give the student an account, in historical and contemporary perspectives, of the development of anthropological methodologies and research techniques. It also aims to equip them with a range of basic skills and procedures which they can apply at a later date to their own research-based projects. The module will provide knowledge of a wide range of research methods used by anthropologists, and encourage a critical awareness of the theoretical assumptions and potential problems associated with the use of such methods.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 100%

SA4005 The West Indies and the Black Atlantic

Credits: 30 Semester: 1

Availability: not available 2009-10

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3061

Description: The West Indies is an anomalous region in relation to the classic aim of anthropology to study small-scale non-Western societies. The modern Caribbean, created out of the slave plantation system and the transportation of millions of Africans and others from the old to the New world, brought into being entirely novel forms of transatlantic culture. This module asks students to rethink the distinction between Western and non-Western culture and to consider the meaning of 'modern' as opposed to 'traditional' society. The Creole cultures of the Caribbean are explored in depth as are the transmigrant experience of many West Indians in metropolitan centres in the first world.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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SA4058 Visual Anthropology

Credits: 30 Semester: 1

Availability: not available 2009-10

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3061

Description: This module provides an introduction to visual anthropology. This topic embraces a broad range of subjects such as photography, material culture, art and ethnographic film. The focus here is on film as a medium of ethnographic investigation and the changing nature of how it has been used as a form of enquiry. Debates about the role of the visual and vision are examined through the contribution of important film-makers. The module involves viewing and critically discussing films, as well as lectures.

Class Hour: To be arranged.

Teaching: One lecture, one seminar

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA4098 Library-based Dissertation

Credits: 30 Semester: 1

Availability: To students taking the Single Honours, Joint Honours and Major Degrees

Prerequisites: One of SA3030, SA3031, SA3050, SA3051

Anti-requisite: SA4099, SA4500, SA4501

Description: The module consists of a supervised exercise in social anthropological enquiry. This will include a library-based independently researched dissertation.

Class Hour: To be arranged.

Teaching: Seminar and tutorial.

Assessment: 7,500 word Dissertation = 100%

SA4099 Primary Research-based Dissertation

Credits: 30 Semester: 1

Availability: To students taking Single Honours, Joint Honours and Major degrees

Prerequisites: SA3506 and one of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Anti-requisites: SA4098, SA4500, SA4501

Description: This module allows advanced undergraduate students to engage in a supervised research project on a topic of their choice. Student will apply theoretical and substantive knowledge from the discipline of social anthropology to a body of ethnographic data obtained from fieldwork and bibliographic sources.

Class Hour: To be arranged.

Teaching: Seminar and tutorial.

Assessment: 10,000 word Dissertation = 100%

SA4850 Andes

Credits: 30 Semester: 1

Availability: not available 2009-10

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: The Andes Mountains were home to some of the most original and sophisticated pre-capitalist states, notably the Inca empire. In this module the emergence and transformation of Andean civilisation is set in its wider context before and after the European invasion. The importance of past and present agencies in the construction of Andean identities requires ethnographic examination of memory of modern Andean communities. Mythohistorical accounts will be complemented by other disciplinary approaches that presuppose absolute chronology.

Class Hour: To be arranged.

Teaching: Fortnightly lecture, two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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SA4855 Anthropology, Literature and Writing

Credits: 30 Semester: 2

Availability: not available 2009-10

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: Links between Anthropology and Literature have been diverse and long-lived. Moreover, with the rise of 'post-modern critique' and debates over the politics of authorship and over the persuasiveness and properties of representation, issues linking these two genres of writing have, for some time at least, assumed central importance in the discipline. This module will review many of these issues, the problems raised and solutions suggested.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA4856 Anthropology, Christianity and Modernity

Credits: 30 Semester: 2

Availability: 2009-10

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: This module provides an anthropological perspective on the impact, and transformation, of Christianity in a range of societies. It offers a comparative consideration on Christian precepts and practices such as ecstasy, belief, sin, experience and transcendence. It asks whether there is a universal conversion process; or are there numerous heterodox Christianities influenced by non-Christian local religions? For example, is Andean Catholicism the same as Spanish Catholicism? In much the same way, the module will consider how non-western societies have transformed Christian doctrines and practices, shaping their own reading of Christian beliefs.

Class Hour: To be arranged.

Teaching: Fortnightly lectures and two-hour seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA4857 West Africa

Credits: 30 Semester: 1

Availability: tbc

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: The module examines some of the central themes in anthropological studies of the history and social organisation of West African peoples. West Africa has been the source of much innovative work relevant to the broader field of social anthropological theory. Attention will be given to a selected set of topics from the literature. The module will give an appreciation of the cultural particularities of the region as well as an awareness of the wider theoretical importance of the selected topics.

Class Hour: To be arranged.

Teaching: One lecture, one seminar and fortnightly tutorial.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA4858 What is Knowledge? An Anthropological Enquiry

Credits: 30 Semester: 2

Availability: not available 2009-10

Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: Anthropology has been inspecting its own knowledge-making practices for two decades now, and increasingly takes an interest in the knowledge-making practices of other peoples and institutions. This age of the 'knowledge economy' seems an apposite moment to consider knowledge in its various guises, to be curious about the ways in which knowledge has been described, and to begin a process of making assumptions surrounding knowledge explicit. We will explore these aims by developing an historical framework of main themes for thinking about knowledge, and by looking to ethnographic examples for anthropological insights to assist and guide. Perhaps 'what is going on anthropologically when people *do* knowledge?' is the better-formulated question.

Class Hour: To be arranged.

Teaching: One lecture, one seminar.

Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

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SA4860 Anthropology of Amazonia

Credits: 30 Semester: 2
Availability: 2009-10
Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: The indigenous peoples of Amazonia have been the subjects of a dramatic increase in ethnographic attention since the late 1960's from anthropologists from many different countries, and the field is currently generating important publications of both ethnographic and theoretical topics. The module addresses this literature, and develops a substantive knowledge of the nature of indigenous societies of the region, on areas like ecology, social organization, recent history, mythology, ritual and the body. By a process of reiterated comparison between specific ethnographic cases, the module allows for the appreciation of these many separate societies as topological transformations of each other, and hence to raise important historical questions about these supposedly 'a-historical' societies.

Class Hour: To be arranged.
Teaching: One lecture, one seminar.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA4861 Ethnography of Fieldwork

Credits: 30 Semester: 2
Availability: 2009-10
Prerequisites: One of SA3030, SA3031, SA3050, SA3051, SA3057, SA3061

Description: This module aims to explore the relationship between experiences of fieldwork and the development of anthropological knowledge. It treats the anthropologist in the field as its chief ethnographic subject. Through readings of published memoirs, anthropological monographs and histories of the discipline, we examine fieldwork as a culture of research and of being-in-the-world. As well as considering the practice or 'work' of fieldwork, we will study anthropologists' appreciations of landscape and the importance assigned to activities such as fiction reading, letter writing, smoking and listening to music in the field. This includes exploring the notion of fieldwork as a mode of exile. Finally, we will examine when and how anthropologists know that anthropological knowledge or insight has been generated.

Class Hour: To be arranged.
Teaching: One lecture, one seminar.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

SA4862 Imagining the World: the Anthropology of Consciousness

Credits: 30 Semester: 2
Availability: not available 2009-10

Description: The anthropology of consciousness is central to contemporary anthropology. This module shows how significant ethnographic studies are for understanding certain aspects of consciousness and for the development of theory in this domain.

Class Hour: To be arranged.
Teaching: One lecture, one seminar.
Assessment: Continuous Assessment = 50%, 3 Hour Examination = 50%

School of Physics & Astronomy

Important Degree Information:

Students who are aiming for a degree in Physics or Astrophysics and who enter with good Advanced Highers or A-levels or equivalent in Physics and Mathematics may apply to take an accelerated entry route to the programme, which can reduce the length of the BSc honours programme to three years and the MPhys programme to four years.

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

M.Phys. Honours

The general requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and a further 210 credits (minimum) at 3000 and 4000 levels.

M.Sci. Honours

The general requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and a further 210 credits (minimum) at 3000 and 4000 levels.

B.Eng. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and a further 150 credits at 3000 and 4000 levels.

M.Eng. Honours

The general requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and a further 240 credits at 3000 and 4000 levels.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Astrophysics</p>	<p>Single Honours Astrophysics (B.Sc.) Degree:</p> <p>Level 1: 80 credits comprising: PH1011, PH1012, MT1002 and AS1001. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 120 credits comprising: 11 or better in AS2001, PH2011, PH2012, and in MT2001.</p> <p>Those on the accelerated-entry route have the same PH and MT requirements for entry to Honours Astrophysics, but normally take AS1001 in their year of entry. AS2101 is then taken in the first semester of JH.</p> <p>Level 3: 105 credits comprising: AS3011, AS3013, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066 and PH3075 (except for students who have taken MT2003).</p> <p>Level 4: At least 60 credits comprising: AS4103, PH4022 and at least two of AS3015, AS4021 - AS4025, and PH4031.</p>
<p>(M.Phys. Honours): Astrophysics (for students entering Honours before 2010)</p>	<p>Single Honours Astrophysics (M.Phys) Degree:</p> <p>Level 1: 80 credits comprising: PH1011, PH1012, MT1002 and AS1001. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 120 credits comprising: grade 15 or better in AS2001, PH2011 and PH2012, and grade 11 or better in MT2001.</p> <p>Those on the accelerated-entry route have the same PH and MT requirements for entry to Honours Astrophysics, but normally take AS1001 in their year of entry. AS2101 is then taken in the first semester of JH.</p> <p>Level 3: 110 credits comprising: AS3011, AS3013, AS3015, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066 and PH3075 (except for students who have taken MT2003).</p> <p>Level 4: At least 55 credits comprising: AS4022, AS4023, PH4022 and at least two of AS4021, AS4024, AS4025 and PH4031.</p> <p>Level 5: At least 90 credits comprising: AS5101 and at least two of AS5001, AS5002, AS5003.</p>
<p>(M.Phys. Honours): Astrophysics (for students entering Honours in 2010 or later)</p>	<p>Single Honours Astrophysics (M.Phys) Degree:</p> <p>Level 1: 80 credits comprising: PH1011, PH1012, MT1002 and AS1001. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 120 credits comprising: grade 15 or better in AS2001, PH2011, PH2012, and in MT2001.</p> <p>Those on the accelerated-entry route have the same PH and MT requirements for entry to Honours Astrophysics, but normally take AS1001 in their year of entry. AS2101 is then taken in the first semester of JH.</p> <p>Level 3: 110 credits comprising: AS3011, AS3013, AS3015, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066 and PH3075 (except for students who have taken MT2003).</p> <p>Level 4: At least 55 credits comprising: AS4022, AS4023, PH4022 and at least two of AS4021, AS4024, AS4025 and PH4031.</p> <p>Level 5: At least 90 credits comprising: AS5101 and at least two of AS5001, AS5002, AS5003.</p>

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Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours):</p> <p>Physics</p>	<p>Single Honours Physics (B.Sc.) Degree:</p> <p>Level 1: 60 credits comprising: PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 90 credits comprising: grade 11 or better in PH2011, PH2012, and in MT2001.</p> <p>Level 3: 105 credits comprising: PH3002, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066, PH3075 (except for students who have taken MT2003) and PH3101.</p> <p>Level 4: 70 credits comprising: PH4021, PH4022, PH4105 and PH4111.</p>
<p>(B.Sc. Honours):</p> <p>Physics and Computer Science, Internet Computer Science, Logic & Philosophy of Science, Mathematics.</p>	<p>Physics element of Joint Degree:</p> <p>Level 1: 60 credits comprising: PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 90 credits comprising: grade 11 or better in PH2011, PH2012, and in MT2001</p> <p>Level 3: 60 credits comprising: PH3007, PH3012, PH3061, PH3062, PH3066 and PH3075 (except for students who have taken MT2003).</p> <p>Level 4: 10 credits comprising PH4022.</p>
<p>(B.Sc. Honours):</p> <p>Physics with French[^]; Physics with Spanish[^]</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p> <p>Not available to entrants from 2008/9</p>	<p>Physics element of Major Degree Programmes:</p> <p>Level 1: 60 credits comprising: PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 90 credits comprising: grade 11 or better in PH2011, PH2012, and in MT2001.</p> <p>Level 3: 90 credits comprising: PH3002, PH3007, PH3012, PH3061, PH3062, PH3066, PH3075 (except for students who have taken MT2003) and at least one of PH3101, PH4105.</p> <p>Level 4: 55 credits comprising: PH4021, PH4022 and PH4111.</p>
<p>(M.Phys. Honours):</p> <p>Physics</p> <p>(for students entering Honours before 2010)</p>	<p>Single Honours Physics (M.Phys.) Degree:</p> <p>Level 1: 60 credits comprising PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 90 credits comprising: grade 15 or better in PH2011 and PH2012, and 11 or better in MT2001</p> <p>Level 3: 135 credits comprising: PH3002, PH3004 or PH3074, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066, PH3073, PH3075 (except for students who have taken MT2003) and PH3101.</p> <p>Level 4: 60 credits comprising: PH4021, PH4022, PH4028, PH4030 and PH4105.</p> <p>Level 5: 60 credits comprising: PH5101.</p>

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Degree Programmes	Programme Requirements at:
<p>(M.Phys. Honours): Physics (for students entering Honours in 2010 or later)</p>	<p>Single Honours Physics (M.Phys.) Degree: Level 1: 60 credits comprising PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required. Level 2: At least 90 credits comprising: grade 15 or better in PH2011, PH2012 and in MT2001 Level 3: 135 credits comprising: PH3002, PH3004 or PH3074, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066, PH3073, PH3075 (except for students who have taken MT2003) and PH3101. Level 4: 60 credits comprising: PH4021, PH4022, PH4028, PH4030 and PH4105. Level 5: 60 credits comprising: PH5101.</p>
<p>(M.Phys. Honours): Physics with Photonics (for students entering Honours before 2010)</p>	<p>Physics with Photonics (M.Phys.) Degree: Level 1: 60 credits comprising: PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required. Level 2: At least 90 credits comprising: grade 15 or better in PH2011 and PH2012, and 11 or better in MT2001 Level 3: 165 credits comprising: PH3002, PH3007, PH3010 or PH4035, PH3012, PH3014, PH3061, PH3062, PH3066, PH3073, PH3074, PH3075 (except for students who have taken MT2003) and PH3101. Level 4: 60 credits comprising: PH4021, PH4022, PH4027, PH4028, PH4030, PH4034, and PH4105. Level 5: 90 credits comprising: PH5005, PH5008 and PH5101.</p>
<p>(M.Phys. Honours): Physics with Photonics (for students entering Honours in 2010 or later)</p>	<p>Physics with Photonics (M.Phys.) Degree: Level 1: 60 credits comprising: PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required. Level 2: At least 90 credits comprising: grade 15 or better in PH2011, PH2012, and in MT2001 Level 3: 165 credits comprising: PH3002, PH3007, PH3010 or PH4035, PH3012, PH3014, PH3061, PH3062, PH3066, PH3073, PH3074, PH3075 (except for students who have taken MT2003) and PH3101. Level 4: 60 credits comprising: PH4021, PH4022, PH4027, PH4028, PH4030, PH4034, and PH4105. Level 5: 90 credits comprising: PH5005, PH5008 and PH5101.</p>
<p>(M.Sci. Honours): Physics and Chemistry (M.Sci. Honours) 5 year Degree (for students entering Honours before 2010)</p>	<p>Physics element of Physics-Chemistry M.Sci. Degree: Level 1: 60 credits comprising: PH1011, PH1012, MT1002 Level 2: At least 90 credits comprising: grade 15 or better in PH2011 and PH2012, and 11 or better in MT2001 Level 3: At least 90 credits comprising: PH3002, PH3007, PH3012, PH3061, PH3062, PH3066, PH3075 (except for students who have taken MT2003) and at least one of PH3101, PH4105 Level 4: 25 credits comprising: PH4021 and PH4022 Level 5: 60 credits from PH5101 plus at least one 15-credit 5000-level module in Physics plus at least 30 credits at 5000 level in Chemistry OR 40 credits from CH5441 plus at least 30 credits at 5000 level in Chemistry plus at least 30 credits in 5000-level modules in Physics.</p>

Degree Programmes	Programme Requirements at:
<p>(M.Sci. Honours): Physics and Chemistry (M.Sci. Honours) 5 year Degree (for students entering Honours in 2010 or later)</p>	<p>Physics element of Physics-Chemistry M.Sci. Degree:</p> <p>Level 1: 60 credits comprising: PH1011, PH1012, MT1002</p> <p>Level 2: At least 90 credits comprising: grade 15 or better in PH201, PH2012, and in MT2001</p> <p>Level 3: At least 90 credits comprising: PH3002, PH3007, PH3012, PH3061, PH3062, PH3066, PH3075 (except for students who have taken MT2003) and at least one of PH3101, PH4105</p> <p>Level 4: 25 credits comprising: PH4021 and PH4022</p> <p>Level 5: 60 credits from PH5101 plus at least one 15-credit 5000-level module in Physics plus at least 30 credits at 5000 level in Chemistry</p> <p>OR</p> <p>40 credits from CH5441 plus at least 30 credits at 5000 level in Chemistry plus at least 30 credits in 5000-level modules in Physics.</p>
<p>(M.Phys. Honours): Theoretical Physics</p>	<p>Single Honours Theoretical Physics (M.Phys.) Degree:</p> <p>Level 1: 60 credits comprising: PH1011, PH1012, and MT1002. For those who enter at Second level, the PH modules are not required.</p> <p>Level 2: At least 90 credits comprising: grade 15 or better in PH2011 and PH2012, and in MT2001</p> <p>Level 3: 120 credits comprising: MT3501, PH3002, PH3007, PH3012, PH3014, PH3061, PH3062, PH3066, PH3073 and PH3075 (except for students who have taken MT2003).</p> <p>Level 4: 60 credits comprising: PH4021, PH4022, PH4028, PH4030, PH4032.</p> <p>Level 5: At least 90 credits comprising: PH5002, PH5004, PH5102 and at least one of PH5003, PH5011 and PH5012.</p>
<p>(M.Phys. Honours): Theoretical Physics and Mathematics</p>	<p>Theoretical Physics element of Joint M.Phys. Degree:</p> <p>Level 1: 40 credits comprising: PH1011, PH1012. For those who enter at Second level, these PH modules are not required.</p> <p>Level 2: 60 credits comprising: grade 15 or better in PH2011 and PH2012.</p> <p>Level 3: At least 65 credits comprising: PH3007, PH3012, PH3061, PH3062, PH3075 (except for students who have taken MT2003). and (PH3073 or MT4507)</p> <p>Level 4: 35 credits comprising: PH4022, PH4028 and PH4032.</p> <p>Level 5: At least 85 credits comprising: PH5002, PH5004, PH5102 or MT5999, and at least one of PH5003, PH5011 and PH5012.</p>
<p>(B.Eng. Honours): Microelectronics and Photonics Not available to entrants from 2007-08</p>	<p>Single Honours Microelectronics and Photonics (B.Eng.) Degree:</p> <p>Level 1: 60 credits comprising: PH1011, PH1012 and MT1002.</p> <p>Level 2: Modules taught by University of Dundee: 120 credits comprising: EG21001, EG21002, EG21005, EG22001, EG22002, EG22004.</p> <p>Level 3: 120 credits comprising: PH3007, PH3014, PH3066, PH3075, PH3110, and modules taught by the University of Dundee: EE31001, EE32002.</p> <p>Level 4: 115 credits comprising: PH4025, PH4027, PH4034, PH4035, and modules taught by the University of Dundee EG40001, EG40003, EG40005.</p>

Degree Programmes	Programme Requirements at:
(M.Eng. Honours): Microelectronics and Photonics Not available to entrants from 2007-08	Single Honours Microelectronics and Photonics (M.Eng.) Degree: Level 1: 60 credits comprising: PH1011, PH1012 and MT1002. Level 2: Modules taught by University of Dundee: 120 credits comprising: EG21001, EG21002, EG21005, EG22001, EG22002, EG22004. Level 3: 120 credits comprising: PH3007, PH3014, PH3066, PH3075, PH3110 and modules taught by the University of Dundee: EE31001, EE32002. Level 4: 105 credits comprising: PH4025, PH4027, PH4034, PH4035, and modules taught by the University of Dundee: EG40001, EG40003. Level 5: 120 credits comprising: PH5018, PH5020 and modules taught by the University of Dundee: CE52001, EE50002 and EE50003.

Modules

Normally the prerequisite for each of the following 3000-level or 4000-level Honours modules is entry to the Honours Programme(s) for which they are specified, as well as any additional specific prerequisite(s) given.

General degree students wishing to enter 3000-level modules, non-graduating students wishing to enter 3000-level or 4000-level modules, and Honours students from other Schools must consult with the relevant Honours Adviser within this School before making their selection.

The Prerequisite for each of the following 5000-level modules is entry to the M.Sci. or M.Phys. Programme(s) for which they are specified, save where an additional prerequisite is given.

InterDisciplinary (ID) Modules

There is a module to which this School contributes – **ID4001 Communications and Teaching in Science** which also appears in the InterDisciplinary Section of the Catalogue (Section 23)

Astronomy (AS) Modules

AS3011 Galaxies

Credits: 10 Semester: 2
 Prerequisite: AS2001
 Availability: 2009-10

Description: This module introduces the basic elements of extragalactic astronomy. This includes the morphological, structural and spectral properties of galaxies, the fundamental plane for elliptical galaxies and the Tully-Fischer relation for spirals. We discuss rotation curves and the need for dark matter. These relationships are used to derive the local value of the Hubble constant along with complementary methods such as the globular cluster luminosity function and surface brightness fluctuations. We assess the space density of galaxies and derive the mean matter density of our local universe. The module also contains material covering our local group and the nearby Virgo and Coma clusters.

Class Hour: To be arranged.
 Teaching: 2 lectures and some tutorials.
 Assessment: 2 Hour Examination = 100%

AS3012 Exoplanetary Science

Credits: 10 Semester: 2

Description: This module introduces the rapidly-developing field of the study of planetary systems beyond our own. It builds on ideas of star formation and stellar structure introduced in AS2001, extending them to the formation of planets in circumstellar accretion discs, and the internal structures of gas-giant planets. New ideas of inward planetary migration due to tidal drag, and dynamical interactions between planets, are introduced. Observational techniques for detecting and studying exoplanets are discussed. The theory of radiative transfer in planetary atmospheres is introduced, in the context of the absorption and scattering mechanisms that may be operating. Cloud formation physics and methods for predicting and identifying the most likely condensates in planetary atmospheres at different temperatures are also covered.

Class Hour: To be arranged.

Teaching: 2 lectures and some tutorials.

Assessment: 2 Hour Examination = 100%

AS3013 Computational Astrophysics

Credits: 10 Semester: 2

Prerequisite: AS2001

Description: The aim of this module is to introduce students to the concepts involved in computational astrophysics. From a general introduction to a current programming language (Fortran90), students are shown how to explore the basics of problem solving using numerical techniques and their application to astrophysical phenomena. The second part of the module involves the development of a numerical integrator to solve orbits in various gravitational potentials. Students then gain experience with the basics of numerical accuracy, and explore the dynamics of orbits in generalised gravitational potentials from planetary to Galactic systems.

Class Hour: To be arranged.

Teaching: 2 lectures/workshops and some computer sessions.

Assessment: Continuous Assessment = 100%

AS3015 Nebulae

Credits: 15 Semester: 1

Prerequisite: AS2001

Description: This module introduces the physics of astrophysical plasmas, as found in stars and interstellar space, where interactions between matter and radiation play a dominant role. A variety of absorption, emission, and scattering processes are introduced to describe exchanges of energy and momentum, which link up in various contexts to control the state and motion of the matter, to regulate the flow of light through the matter, and to impress fingerprints on the emergent spectrum. The theory is developed in sufficient detail to illustrate how astronomers interpret observed spectra to infer physical properties of astrophysical plasmas. Applications are considered to photo-ionize nebulae, interstellar shocks, nova and supernova shells, accretion discs, quasar-absorption-line clouds, radio synchrotron jets, radio pulsars, and x-ray plasmas.

Class Hour: To be arranged.

Teaching: 3 lectures and some tutorials.

Assessment: 2 Hour Examination = 100%

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AS4021 Gravitational Dynamics

Credits: 10 Semester: 2

Availability: not available 2009-10

Prerequisite: AS2001

Description: This module aims to explore the basics of gravitational dynamics and its application to systems ranging from planetary and stellar systems to clusters of galaxies. Starting from two-body motion and orbits under a central-force law, the module describes the calculation of extended potentials and their associated orbits. The use of the virial theorem and the statistical treatment of large numbers of self-gravitating bodies is then developed with application to stellar systems. Applications of these methods are made to several different astrophysical objects ranging from collisions in globular clusters to the presence of dark matter in the universe.

Class Hour: To be arranged.

Teaching: 2 lectures and some tutorials.

Assessment: 2 Hour Examination = 100%

AS4022 Cosmology

Credits: 10 Semester: 2

Prerequisite: AS2001

Description: The module starts with Olber's paradox, (why is the sky dark at night?) and its resolution (that the universe had a beginning) and then reviews the evidence that the universe is currently expanding at 68 ± 10 km/s/Mpc. We then develop a mathematical framework capable of dealing with expanding curved space-time and derive the basic equations which govern the expansion and curvature of the universe as a function of time. We test the predictions, strengths and weaknesses of this standard model including the cosmic microwave background, big bang nucleosynthesis and the need for the theory of inflation. We find that the fate of the universe is entirely dependent on the current density of matter, radiation and vacuum energy, and review the latest observations which measure these key parameters. Finally the ultimate fate of the Universe is revealed.

Class Hour: To be arranged.

Teaching: 2 lectures and some tutorials.

Assessment: 2 Hour Examination = 100%

AS4023 Stars

Credits: 15 Semester: 2

Prerequisite: AS2001

Description: This module develops the physics of stellar interiors and atmospheres from the basic equations of stellar structure introduced in AS2001. Topics include: the equation of state that provides pressure support at the high temperatures and densities found in normal and white-dwarf stars; the interaction of radiation with matter, both in terms of radiation-pressure support in super-massive stars and in terms of the role of opacity in controlling the flow of energy from the stellar interior to the surface; the equation of radiative transfer and the effects of local temperatures, pressures and velocity fields on the continuum and line absorption profiles in the emergent spectrum. Computer-aided tutorial exercises illustrate the computational schemes that represent one of the triumphs of late 20th-century physics, in their ability to predict the observable properties of a star from its radius and luminosity, which in turn are determined by its mass, age and chemical composition.

Class Hour: To be arranged.

Teaching: 3 lectures and some tutorials.

Assessment: 2 Hour Examination = 100%

AS4025 Observational Astrophysics

Credits: 15 Semester: 1
Prerequisite: AS2001

Description: This is an observational and laboratory-based module that introduces students to the hands-on practical aspects of planning observing programmes, conducting the observations and reducing and analysing the data. Observations are secured at the University Observatory using various telescopes for CCD photometry of star clusters and galaxies, and for CCD spectroscopy of stars. Further sources of data may be made available from international observatories. Students gain experience in observation, data analysis, the UNIX operating system, standard astronomical software packages and modelling, and report writing.

Class Hour: To be arranged.
Teaching: Two 3 hour laboratories.
Assessment: Continuous Assessment = 100%

AS4103 Project in Astrophysics 1

Credits: 30 Semester: Whole Year
Anti-requisites: AS5101, PH4111, PH5101, PH5102

Description: The project aims to develop students' skills in searching the appropriate literature, in experimental and observational design, the evaluation and interpretation of data, and the presentation of a report. The main project is preceded by a review essay. There is no specific syllabus for this module. Students taking the BSc degree select a project from a list of those which are available, and are supervised by a member of the academic staff. Project choice and some preparatory work is undertaken in semester one, but normally around 29 of the 30 credits' worth of work is normally undertaken in semester two.

Assessment: Project and Oral Examination = 100%

AS5001 Astronomical Data Analysis

Credits: 15 Semester: 1
Prerequisite: AS2001. Highly recommended: AS3013 (Computational Astrophysics) or PH4030 (Computational Physics). Familiarity with a programming language and concepts of computational physics or astrophysics are assumed.

Description: This module develops an understanding of basic concepts and offers practical experience with the techniques of quantitative data analysis. Beginning with fundamental concepts of probability theory and random variables, practical techniques are developed for using quantitative observational data to answer questions and test hypotheses about models of the physical world. The methods are illustrated by applications to the analysis of time series, imaging, spectroscopy, and tomography datasets. Students develop their computer programming skills, acquire a data analysis toolkit, and gain practical experience by analyzing real datasets.

Class hour: To be arranged.
Teaching: Three lectures or tutorials.
Assessment: Continuous Assessment = 100%

AS5002 Star Formation and Plasma Astrophysics

Credits: 15 Semester: 1
Prerequisite: AS2001

Description: The aim is to describe the physics of how a magnetic field interacts with a plasma, and to use this knowledge to explore the role of magnetic fields in the formation of solar-like stars and in compact objects with accretion discs. The syllabus comprises: Solar-like magnetic activity on other stars. The basic equations of magneto-hydrodynamics. Stellar coronae: X-ray properties and energetics of coronal loops. Energetics of magnetic field configurations. MHD waves and propagation of information. Solar and stellar dynamos: mean field models. Star formation: properties of magnetic cloud cores, magnetic support. Physics of accretion discs: transport of mass and angular momentum. Accretion on to compact objects and protostars. Rotation and magnetic fields in protostellar discs. Rotation distributions of young solar-type stars. Magnetic braking via a hot, magnetically channelled stellar wind.

Class hour: To be arranged.
Teaching: Three lectures or tutorials.
Assessment: 2 Hour Examination = 100%

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AS5003 Contemporary Astrophysics

Credits: 15 Semester: 1

Description: This module will provide an annual survey of the latest, most interesting, developments in astronomy and astrophysics at the research level. Emphasis will be placed upon the application of knowledge and expertise gained by students in their other modules to these current research topics.

Class Hour: To be arranged.

Teaching: 3 lectures and some tutorials

Assessment: 2 Hour Examination = 100%

AS5101 Project in Astrophysics 2

Credits: 60 Semester: Whole Year

Anti-requisites: AS4103, PH4111, PH5101, PH5102

Description: The project aims to develop students' skills in searching the appropriate literature, in experimental and observational design, the evaluation and interpretation of data, and the presentation of a report. The main project is preceded by a review essay. There is no specific syllabus for this module. Students taking the M. Phys. degree select a project from a list of those which are available, and are supervised by a member of the academic staff. Project choice and some preparatory work is undertaken in semester one, but normally around 59 of the 60 credits' worth of work is normally undertaken in semester two.

Assessment: Continuous Assessment = 100%

InterDisciplinary (ID) Modules

ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

Physics (PH) Modules

PH3002 Solid State Physics

Credits: 15 Semester: 2

Description: This introductory module is intended to show how the various optical, thermal and electrical properties of solids are related to the nature and arrangement of the constituent atoms in a solid. For simplicity, emphasis is given to crystalline solids. The module examines: symmetry properties of crystals; common crystalline structures; the behaviour of waves in crystals; waves of atomic motion, leading to thermal properties; electronic energy states: conductors, insulators, semiconductors; electrical properties arising from the wave nature of electrons; examples of the fundamental theory to typical solids such as simple metals, silicon and other semiconductors, and magnetic materials.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH3007 Electromagnetism

Credits: 15 Semester: 2

Prerequisites: (PH3075 or MT2003) and PH2012 and MT2001.

Description: The properties of electric and magnetic fields will be discussed, starting with static fields and moving on to time-dependent properties. Maxwell's equations are derived, and result in the wave equation and the conclusion that light is an electromagnetic wave. The theory is applied to the transmission of waves in free space, ionised gases (plasmas), metals and dielectrics. The relation between electromagnetic theory and quantum theory will be discussed briefly.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH3011 Information and Measurement

Credits: 15 Semester: 2

Availability: Not available 2009-10

Description: The module explains what information is, how we process it, and how it is collected by making measurements. The first eight lectures concentrate on the basics of measurement, information theory, and processing systems. The rest of the module uses various examples to show how these basics are put into use. The CD system is used to illustrate information collection, processing, and communication in digital form. Data compression/reduction is illustrated with examples which include digital compact cassette. Other illustrations include the methods used by spies to encrypt messages and the applications of chaotic systems and signals.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH3012 Thermal and Statistical Physics

Credits: 15 Semester: 1

Description: The aim of this module is to cover at honours level the principles and most important applications of thermodynamics and statistical mechanics. The syllabus includes: derivation of the three laws of thermodynamics, and the equation of state; Maxwell's relations; correction of solid state results from constant pressure to constant volume, liquifaction of gases; concept of independent quantum state; energy levels and degeneracy; the microcanonical ensemble; quantum gases and the classical limit; the canonical ensemble; fluctuations; the connection with thermodynamics; the classical perfect gas; equipartition of energy; the grand canonical ensemble; black body radiation; matter at high density and pressure; fluctuations and noise; phase transitions; negative temperatures.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

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PH3014 Transferable Skills for Physicists

Credits: 15 Semester: Whole Year

Prerequisite: Entry to the School's Honours programme, or shadowing same.

Description: The aim of the module is to develop the key skills of oral and written communication, information technology, team working and problem solving. This will be done in the context of physics and astronomy. Guidance, practice and assessment will be provided in the preparation and delivery of talks, critical reading of the literature, report and essay writing, developing and writing a case for resources to be expended to investigate a particular area of science, tackling case studies.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials or workshops.

Assessment: Continuous Assessment on basis of exercises = 100%

PH3061 Quantum Mechanics 1

Credits: 10 Semester: 1

Description: This module introduces the main features of quantum mechanics. The syllabus includes: early ideas on quantisation, the emergence of the Schrödinger equation, the interpretation of the wave function and Heisenberg's uncertainty relation. The concepts of eigenfunctions and eigenvalues. Simple one-dimensional problems including potential wells and barriers; the linear harmonic oscillator. Solution of the Schrödinger equation for central forces, the radial Schrödinger equation, and the hydrogen atom.

Class Hour: To be arranged.

Teaching: 2 lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH3062 Quantum Mechanics 2

Credits: 10 Semester: 2

Prerequisite: PH3061

Description: This module explores more of the main features of quantum mechanics, taking for granted a knowledge of the material in PH3061. The syllabus includes a treatment of perturbation theory, and time dependence of the wave function including transitions between stationary states. Students are introduced to the quantum mechanics of a system of particles, which leads on to the distinction between fermions and bosons and applications to atoms, metals and neutron stars.

Class Hour: To be arranged.

Teaching: 2 lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH3066 Mathematics for Physicists

Credits: 10 Semester: 1

Description: The module aims to develop mathematical techniques that are required by a professional physicist or astronomer. There is particular emphasis on the special functions which arise as solutions of differential equations which occur frequently in physics. Analytic mathematical skills are complemented by the development of computer-based solutions. The emphasis throughout is on obtaining solutions to problems in physics and its applications. Specific topics to be covered will be Fourier transforms, the gamma function, the Dirac delta function, partial differential equations and their solution by separation of variables technique, series solution of second order ODEs, Hermite polynomials, Legendre polynomials and spherical harmonics.

Class Hour: To be arranged.

Teaching: 2 lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH3073 Lagrangian and Hamiltonian Dynamics

Credits: 10 Semester: 2

Prerequisite: PH2011, MT2001 and a knowledge of vector calculus.

Anti-requisite: MT4507

Description: The module covers the foundations of classical mechanics as well as a number of applications in various areas. Starting from the principle of least action, the Lagrangian and Hamiltonian formulations of mechanics are introduced. The module explains the connection between symmetries and conservation laws and shows bridges between classical and quantum mechanics. Applications include planetary motion, particle scattering, oscillators, and chaos.

Class Hour: To be arranged.

Teaching: Two lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH3074 Electronics

Credits: 15 Semester: 1

Description: This module gives a basic grounding in practical electronics. It introduces and develops the basic principles underlying the synthesis and analysis of digital and analogue circuits. The module is divided into three parts: an introductory section which reviews those parts of electromagnetism most related to electronics, including d.c. and a.c. circuit theory; a section on transistors and amplifiers including simple transistor circuits and noise considerations; and a section on digital electronics including logic gates, flip-flops and the design of circuits with applications to counters, latches registers etc.

Class Hour: To be arranged.

Teaching: Three lectures and some tutorials and practical work.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH3075 Applied Vector Calculus

Credits: 5 Semester: 1

Anti-requisite: MT2003

Description: This module gives a basic grounding in vector calculus for students who have not taken MT2003 or equivalent. It covers the basic definitions of the grad, div, curl and Laplacian operators, their application to physics, and the form which they take in particular coordinate systems.

Class Hour: To be arranged.

Teaching: One lecture and some tutorials.

Assessment: Continuous Assessment = 100%

PH3101 Physics Laboratory 1

Credits: 15 Semester: 2

Anti-requisite: PH3110

Description: The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instil an appreciation of the significance of experiments and their results. The module consists of four sub-modules on solid state physics, lasers, interfacing, and signal processing.

Class Hour: 2.00 - 5.00 pm Monday and 2.00 - 5.00 pm Thursday

Teaching: Two 3 hour laboratories.

Assessment: Continuous Assessment = 100%

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PH4021 Physics of Atoms

Credits: 15 Semester: 1

Prerequisite: PH3061, PH3062.

Description: This module provides a rational basis to the identification of atomic energy states and the various interactions of electrons within atoms. It provides an understanding of aspects of laser physics, solid state and stellar physics. The syllabus includes: electron cloud model of an atom; electron spin; magnetic moments of electron behaviour; spin-orbit interactions and possible states of electron energy; one and two-electron systems; line intensities; Lande g-factors; weak Zeeman and strong Paschen-Back magnetic field effects; Stark electric field effects; hyperfine structure and Lamb shifts; magnetic resonance and esr in atomic beam experiments; molecular structure: electronic, vibrational and rotational effects.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH4022 Nuclear and Particle Physics

Credits: 10 Semester: 2

Prerequisites: PH2012, PH3061 and PH3062

Description: The aim of this module is to describe in terms of appropriate models, the structure and properties of the atomic nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: nuclear sizes, binding energy, spin dependence of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; spin-orbit coupling; energetics of β -decay, α -decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks, and ideas that go beyond the standard model.

Class Hour: To be arranged.

Teaching: Two lectures or tutorials.

Assessment: Continuous Assessment = 20%, 2 Hour Examination = 80%

PH4025 Physics of Electronic Devices

Credits: 15 Semester: 2

Prerequisites: PH3007, PH3012, PH3061

Description: The module describes the physical phenomena involved in the operation of semiconductor devices, and then shows how the phenomena determine the properties of specific devices such as the transistor. Although only a few devices are described, the student taking the module should acquire a sufficient background to understand a wide variety of modern semiconductor devices. The module covers: semiconductor properties: band gaps, optical and electrical properties; conduction in an electric field and by diffusion; factors determining the concentrations of electrons and holes; the continuity equation; properties of pn junctions and Schottky diodes; typical devices: bipolar transistor, field-effect transistor, MOSFET, light emitting diodes, semiconductor lasers.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH4026 Radio and Coherent Techniques

Credits: 15 Semester: 2
Availability: 2009-10

Description: The aim of this module is to explain the techniques used by radio, microwave and mm-wave engineers to communicate, and collect, information. It concentrates mainly upon radio techniques to explain how coherent electromagnetic signals can be employed to carry information. Practical examples are given to illustrate the way the basic concepts can be applied. These include an explanation of how FM stereo radio and colour TV work as examples of signal multiplexing. The module looks at microwave and millimetre-wave techniques and shows how electronics and optics can be mixed at higher signal frequencies. Using the examples of spy and other types of satellites, it also explains how radar and passive sensing systems can be used to gather information.

Class Hour: To be arranged.
Teaching: Three lectures or tutorials.
Assessment: 2 Hour Examination = 100%

PH4027 Optoelectronics and Nonlinear Optics 1

Credits: 15 Semester: 1
Prerequisites: PH3007

Description: The module provides an introduction to the basic physics underpinning optoelectronics and nonlinear optics, and a perspective on contemporary developments in the two fields. The syllabus includes: an overview of optoelectronic devices and systems; optical modulators; acousto-optics; Bragg and Raman-Nath; propagation of light in anisotropic media; electro-optics; waveguide and fibre optics; modes of planar guides; nonlinear optics; active and passive processes in second and third order; second harmonic generation; phase matching; coupled wave equations; parametric oscillators; self-focusing and self-phase-modulation; optical bistability; phase conjugation; solitons; Rayleigh; Raman and Brillouin scattering.

Class Hour: To be arranged.
Teaching: Three lectures or tutorials.
Assessment: 2 Hour Examination = 100%

PH4028 Quantum Mechanics 3

Credits: 10 Semester: 2
Prerequisites: PH3061, PH3062

Description: This module presents the main theoretical basis of quantum mechanics, starting with the representation of dynamical variables by operators. The Fourier transform of the wave function is shown to provide information on the momentum distribution. The importance of commutators is demonstrated, and the general uncertainty relation is derived. Other topics which are treated are the variational principle, matrix mechanics, operator methods for finding eigenvalues and eigenfunctions, spin angular momentum, and the total angular momentum for one electron atoms.

Class Hour: To be arranged.
Teaching: 2 lectures and some tutorials.
Assessment: 2 Hour Examination = 100%

PH4030 Computational Physics

Credits: 10 Semester: 1 & 2 (taught twice)

Description: This module is designed to develop a level of competence in Mathematica, a modern programming language currently used in many physics research labs for mathematical modelling. No prior experience is required. The module starts with a grounding in the use of Mathematica and discusses symbolic solutions and numerical methods. The main focus will be the use of Mathematica for problem solving in physics. The module is continually assessed through short tests and assignments, with the bulk of the assessment based on the submission of a Mathematica project.

Class Hour: To be arranged.
Teaching: 2 two hour sessions.
Assessment: Continuous Assessment = 100%

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PH4031 Fluids

Credits: 15 Semester: 1

Description: This module provides an introduction to fluid dynamics, and addresses the underlying physics behind many everyday flows that we see around us. It starts from a derivation of the equations of hydrodynamics and introduces the concept of vorticity and the essentials of vorticity dynamics. The influence of viscosity and the formation of boundary layers is described with some straightforward examples. The effect of the compressibility of a fluid is introduced and applied to shock formation and to the conservation relations that describe flows through shocks. A simple treatment of waves and instabilities then allows a comparison between theory and readily-observed structures in clouds, rivers and shorelines.

Class Hour: To be arranged.

Teaching: 3 lectures and some tutorials.

Assessment: 2 Hour Examination = 100%

PH4032 Relativity and Fields

Credits: 15 Semester: 1

Prerequisites: PH3073 or MT4507

Description: The module analyses classical fields in physics such as the electromagnetic field. Fields are natural ingredients of relativity, because they serve to communicate forces with a finite velocity (the speed of light). The module covers the tensor formalism of special relativity, relativistic dynamics, the Lorentz force, Maxwell's equations, retarded potentials, symmetries and conservation laws, and concludes with an outlook to general relativity.

Class Hour: To be arranged.

Teaching: Three lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH4034 Laser Physics 1

Credits: 15 Semester: 1

Description: This module presents a basic description of the main physical concepts upon which an understanding of laser materials, operations and applications can be based. The syllabus includes: basic concepts of energy-level manifolds in gain media, particularly in respect of population inversion and saturation effects; conditions for oscillator stability in laser resonator configurations and transverse and longitudinal cavity mode descriptions; single longitudinal mode operation for spectral purity and phase locking of longitudinal modes for the generation of periodic sequences of intense ultrashort pulses (i.e. laser modelocking); illustrations of line-narrowed and modelocked lasers and the origin and exploitability of intensity-induced nonlinear optical effects.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH4035 Principles of Optics

Credits: 15 Semester: 2

Description: This module formulates the main aspects of physics used in modern optics, lasers and optoelectronic systems. Topics covered include: polarised light and its manipulation, with descriptions in terms of Jones' vectors and matrices; Fresnel's equations for transmittance and reflectance at plane dielectric interfaces; reflection and transmission of multi-layer thin films plus their use in interference filters; interpretation of diffraction patterns in terms of Fourier theory; spatial filters; the theory and use of Fabry-Perot etalons; laser cavities and Gaussian beams.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH4036 Physics of Music

Credits: 15 Semester: 1
Prerequisites: Admission to the Honours class in physics and astronomy and prior or concurrent attendance at PH3066

Description: Musical instruments function according to the laws of physics contained in the wave equation. Wind instruments, the human voice and the acoustics of concert halls can be explained largely by considering waves in the air, but understanding drums, percussion, string instruments and even the ear itself involves studying the coupling of waves in various media. The concepts of pitch, loudness and tone are all readily explained in quantitative terms as are the techniques that musicians and instrument makers use to control them. Analogue and digital recording and playback technology are other topics of interest which will be described.

Class Hour: To be arranged.
Teaching: Three lectures and some tutorials.
Assessment: 2 Hour Examination = 100%

PH4105 Physics Laboratory 2

Credits: 15 Semester: 1
Anti-requisite: PH3110

Description: The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instil an appreciation of the significance of experiments and their results. The module consists of four sub-modules on solid state physics, lasers, interfacing, and signal processing.

Class Hour: 2.00 - 5.00 pm Monday and 2.00 - 5.00 pm Thursday
Teaching: Two 3 hour laboratories.
Assessment: Continuous Assessment = 100%

PH4111 Project in Physics 1

Credits: 30 Semester: Whole Year
Prerequisites: At least one of PH3101, PH4105
Anti-requisites: AS4103, AS5101, PH5101, PH5102

Description: The project aims to develop students' skills in searching the physics literature and in experimental design, the evaluation and interpretation of data, and in the presentation of results. The main project is preceded by a review essay on a topic which may be related to the theme of the project or may be unrelated to it. There is no specific syllabus for this module. Students taking the BSc degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally around 29 of the 30 credits' worth of work is normally undertaken in semester two.

Assessment: Project and Oral Examination = 100%

PH4112 Physics Project

Credits: 120 Semester: Whole Year
Availability: Available to non-graduating students only

Description: This module is for non-graduating students who wish to pursue a project in physics lasting the whole session. The project is designed to develop students' skills in searching the literature, in the design of the investigation of the topic, in the evaluation and interpretation of data and in the presentation of results. There is no specific syllabus for this module, and students select their project topic in consultation with their supervisor.

Class Hour: No specific hours.
Teaching: Weekly meetings with supervisor.
Assessment: Continuous Assessment = 100%

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PH4113 Physics Project

Credits: 60 Semester: Either

Description: This module is for non-graduating students who wish to pursue a project in physics lasting one semester. The project is designed to develop students' skills in searching the literature, in the design of the investigation of the topic, in the evaluation and interpretation of data and in the presentation of results. There is no specific syllabus for this module, and students select their project topic in consultation with their supervisor.

Class Hour: No specific hours.

Teaching: Weekly meetings with supervisor.

Assessment: Project and Oral Examination = 100%

PH5002 Foundations of Quantum Mechanics

Credits: 15 Semester: 1

Prerequisite: PH3061 and PH3062.

Description: This module consists of five parts: (i) Hilbert spaces and operators including a discussion of spectral decomposition of selfadjoint operators; (ii) postulates of quantum mechanics for observables with discrete spectra with illustrative examples including various pictures (Schrodinger, Heisenberg, interaction) of time evolution; (iii) postulates of quantum mechanics for observables with continuous spectra in terms of probability distribution functions and the spectral functions; (iv) quantum theory of orbital, spin angular momenta and their addition, Pauli-Schrodinger equation; (v) introduction to relativistic quantum mechanics.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH5003 Group Theory

Credits: 15 Semester: 1

Prerequisites: PH3061 and PH3062

Description: This module explores the concept of a group, including groups of coordinate transformations in three-dimensional Euclidean space; the invariance group of the Hamiltonian operator; the structure of groups: subgroups, classes, cosets, factor groups, isomorphisms and homomorphisms, direct product groups; introduction to Lie groups, including notions of connectness, compactness, and invariant integration; representation theory of groups, including similarity transformations, unitary representations, irreducible representations, characters, direct product representations, and the Wigner-Eckart theorem; applications to quantum mechanics, including calculation of energy eigenvalues and selection rules.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH5004 Quantum Field Theory

Credits: 15 Semester: 2

Prerequisites: PH3061, PH3062 and PH3073 or MT4507

Co-requisite: PH5002 is recommended but not compulsory.

Description: This module presents an introductory account of the ideas of quantum field theory and of simple applications thereof, including quantization of classical field theories, second quantization of bosons and fermions, the failure of single particle interpretation of relativistic quantum mechanics, solving simple models using second quantization, Feynman's path integral approach to quantum mechanics and its relation to classical action principles, field integrals for bosons and fermions, the relationship between path integral methods and second quantization, and a descriptive introduction to Green's functions and Feynman diagrams.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH5005 Laser Physics 2

Credits: 15 Semester: 1

Prerequisites: PH3007, PH3061, PH3062, PH4034

Anti-requisite: PH5018

Description: Quantitative treatment of laser physics embracing both classical and semiclassical approaches; transient/dynamic behaviour of laser oscillators including relaxation oscillations, amplitude and phase modulation, frequency switching, Q-switching, cavity dumping and mode locking; design analysis of optically-pumped solid state lasers; laser amplifiers including continuous-wave, pulsed and regenerative amplification; dispersion and gain in a laser oscillator - role of the macroscopic polarisation; unstable optical resonators, geometric and diffraction treatments; quantum mechanical description of the gain medium; coherent processes including Rabi oscillations; semiclassical treatment of the laser; tunable lasers.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH5011 General Relativity

Credits: 15 Semester: 1

Description: This module covers: inertial frames, gravity, principle of equivalence, curvature of spacetime; basic techniques of tensor analysis; Riemannian spaces, metric tensor, raising and lowering of indices, Christoffel symbols, locally flat coordinates, covariant derivatives, geodesics, curvature tensor, Ricci tensor, Einstein tensor; fundamental postulates of general relativity: spacetime, geodesics, field equations, laws of physics in curved spacetime; distances, time intervals, speeds; reduction of equations of general relativity to Newtonian gravitational equations; Schwarzschild exterior solution, planetary motion, bending of light rays, time delays; observational tests of general relativity; Schwarzschild interior solution, gravitational collapse, black holes.

Class Hour: To be arranged.

Teaching: Three lectures or tutorials.

Assessment: 2 Hour Examination = 100%

PH5013 Superconductivity

Credits: 15 Semester: 1

Availability: not available 2009-10

Prerequisites: PH3002, PH3061, PH3062

Description: This module will involve a treatment of one of the outstanding on-going problems in modern physics. The basic thermodynamics of the superconducting state will be reviewed, emphasising superconductivity as an archetypal second order phase transition. The next section will cover Ginzburg-Landau theory and the different phenomenological properties of type-I and type-II superconductors. An explanation will be given of the famous Bardeen-Cooper-Schrieffer theory of conventional superconductivity. Finally, a brief overview will be given of the many unsolved problems in modern unconventional superconductivity in materials as diverse as oxides, 'heavy fermion' alloys and allotropes of carbon. A few topics will be the subject of individual study by the student and will be examined continuously.

Class Hour: To be arranged.

Teaching: Two lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

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PH5014 The Interacting Electron Problem in Solids

Credits: 15 Semester: 1

Prerequisites: PH3002, PH3061, PH3062

Description: The aim of this module is to give an overview of developments in modern condensed matter physics. The difficulties of a full quantum mechanical treatment of electrons with strong interactions will be discussed. Common existing approaches such as the Hubbard and t-J models and Fermi liquid theory will be compared. It will be shown that, although microscopic models can explain aspects of magnetism, they have little chance of capturing many other features of the fascinating low-energy physics of these systems. Instead, we introduce the principle of emergence, and show how it suggests radically new approaches to the problem of complexity in condensed matter physics and beyond. In this module, formal lectures will be combined with reading assignments, and the assessment will be based on marked homework together with an oral presentation followed by questions.

Class Hour: To be arranged.

Teaching: Two lectures and some tutorials.

Assessment: Continuous Assessment = 50%, Presentation plus Oral Examination = 50%

PH5015 Experimental Quantum Physics at the Limit

Credits: 15 Semester: 1

Availability: Not available 2009-10

Prerequisites: PH3061, PH3062

Description: Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this module we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The module includes studies of Bose-Einstein condensation, quantum dots and quantum computing. An emphasis throughout will be on how such quantum systems may actually turn into practical devices in the future. The module will include one workshop and a short presentation on a research paper.

Class Hour: To be arranged.

Teaching: Two lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH5016 Biophotonics

Credits: 15 Semester: 1

Prerequisites: PH4035 or PH4034

Description: The module will expose students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS. Two thirds of the module will be taught as lectures, including guest lectures by specialists, with the remaining third consisting of problem-solving exercises, such as specific literature reviews, design exercises and mini-projects. A visit to a biomedical research laboratory, e.g. at Ninewells hospital, will also be arranged.

Class Hour: To be arranged.

Teaching: Two lectures and some tutorials.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH5018 Laser Physics 2 - Extended

Credits: 20 Semester: 1
Prerequisites: PH3007, PH4034
Anti-requisite: PH5005
Description: This module consists of the material in PH5005 with the addition of a project involving directed reading on a related advanced topic.
Class Hour: To be arranged.
Teaching: Three lectures and some tutorials.
Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PH5020 Photonics Applications - Extended

Credits: 20 Semester: 1
Prerequisites: Admission to the MEng year of the Microelectronics and Photonics Programme
Anti-requisite: PH5183
Description: This module consists of two main sections. The first looks at the way that laser light can be used to reduce the mechanical motion of atoms. Topics include laser cooling, sub-Doppler cooling, magneto-optical traps, Bose Einstein condensates, and the cooling of Fermi gases by the method of evaporative cooling. Applications such as matter-wave interferometry and the Mott Insulator transition are discussed.
The second section looks at nanostructured materials such as photonic crystals and plasmonic metamaterials. The properties of these nanostructured materials are determined from their dispersion diagram or optical bandstructure. Also covered are the physics of multilayer mirrors, interference effects being used to provide more complex features such as slow light propagation and high Q cavities in photonic crystal waveguides, supercontinuum generation in photonic crystal fibres, super-lensing and optical cloaking in plasmonic metamaterials.
Class Hour: To be arranged.
Teaching: Three lectures and some tutorials.
Assessment: Continuous Assessment = 20%, 2 Hour Examination = 80%

PH5101 Project in Physics 2

Credits: 60 Semester: Whole Year
Prerequisite: PH3101
Anti-requisites: AS4103, AS5101, PH4111, PH5102
Description: The project aims to develop students' skills in searching the physics literature and in experimental design, the evaluation and interpretation of data, and in the presentation of results. The main project is preceded by a review essay on a topic which may be related to the theme of the project or may be unrelated to it. There is no specific syllabus for this module. Students taking the M.Phys. degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally around 59 of the 60 credits' worth of work is normally undertaken in semester two.
Assessment: Continuous Assessment = 100%

PH5102 Project in Theoretical Physics

Credits: 45 Semester: Whole Year
Anti-requisites: AS4103, AS5101, PH4111, PH5101
Description: The project aims to survey the literature associated with the topic of the project and either (i) conduct original research into some problem in this field or (ii) prepare a research review of the field. In each case a written report is submitted in the range 5,000 to 10,000 words. There is no specific syllabus for this module. Students taking the M.Phys degree select a project from a list of those which are available, and are supervised by a member of the academic staff. Project choice and some preparatory work is undertaken in semester one, but normally around 44 of the 45 credits' worth of work is normally undertaken in semester two.
Assessment: Continuous Assessment = 100%

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PH5183 Photonics Applications

Credits: 15 Semester: 1

Description: Students on this module choose to do two of the following three sections:

Microphotonics and Plasmonics: This covers the Bragg effect, multilayer mirrors, defects causing confined cavity states, periodicity leading to bandstructure, scaling of bandstructure in reduced frequency, Bloch modes and photonic bandgap. It then considers photonic crystal waveguides, photonic crystal fibres, and supercontinuum generation in photonic crystal fibres. Plasmonics is based on oscillations of the free electrons in a metallic material. Resonances of Plasmons are the basis for a new class of materials called 'Metamaterials'. These are compared with photonic crystals. Applications include super-resolution imaging, optical cloaking, sensing, and surface enhanced Raman scattering.

Biophotonics: This will introduce students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS.

Optical Trapping and Atom Optics: Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this course we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The material includes optical cooling and trapping of atoms and ions, Fermi gases, studies of Bose-Einstein condensation, and matter-wave interferometry.

Class Hour: To be arranged.

Teaching: Three lectures and occasional tutorials.

Assessment: Continuous Assessment = 15%, Two Hour Examination = 85%

School of Psychology

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: BPS Recognition

Passes in PS3021, PS3022, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038, PS4040 and PS4050 are required for recognition by the British Psychological Society. This is not possible for degrees in combination with Theological Studies, Economics, History, International Relations, Management, Modern languages (MA degrees) or Social Anthropology. This recognition is required for those who wish to gain employment as professional psychologists.

In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:
(M.A. Honours or B.Sc. Honours): Psychology (For those entering Honours before 2009.)	Single Honours Psychology Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 120 credits from the 3000-level PS modules and PS4040 Level 4: 120 credits from the 4000-level PS modules, necessarily including PS4050 and PS4060; with the prior approval of the School, up to 30 credits from elsewhere in the Catalogue may be substituted for 4000-level PS modules. Other Information: This degree is recognized by the British Psychological Society.
(M.A. Honours or B.Sc. Honours): Psychology (For those entering Honours in or after 2009.)	Single Honours Psychology Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 110 credits consisting of passes in PS3021, PS3022, PS3031, PS3032, PS3033, PS3034, PS3035, PS3036, PS3037, PS3038. Level 4: 130 credits from the 4000-level PS modules, necessarily including PS4040, PS4050 and PS4060; with the prior approval of the School, up to 30 credits from elsewhere in the Catalogue may be substituted for 4000-level PS modules. Other Information: This degree is recognized by the British Psychological Society.

Psychology – Honours 2009/10 – August 2009

Degree Programmes	Programme Requirements at:
<p>(M.A. Honours):</p> <p>Psychology and Art History, English, French[^], Geography, German[^], International Relations, Italian (WIYA only), Management, Mathematics, Mediaeval History, Modern History, Philosophy, Social Anthropology, Theological Studies.</p> <p>(For those entering Honours before 2009.)</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Psychology element of Joint Honours Degrees:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: 90 credits consisting of passes in PS3007, PS3008, PS3009, PS3010, PS3011, (PS3006 or PS3012).</p> <p>Level 4: Up to a further 60 credits</p> <p>see “Other Information” for additional requirements for BPS recognition.</p>
<p>(M.A. Honours):</p> <p>Psychology and Art History, English, French[^], Geography, German[^], International Relations, Italian (WIYA only), Management, Mathematics, Mediaeval History, Modern History, Philosophy, Social Anthropology, Theological Studies.</p> <p>(For those entering Honours in or after 2009.)</p> <p>[^] available also as 'With Integrated Year Abroad Degrees'</p>	<p>Psychology element of Joint Honours Degrees:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: At least 60 credits consisting of passes in PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038.</p> <p>Level 4: Up to 40 credits consisting of PS4040 and PS4050,</p> <p>see “Other Information” for additional requirements for BPS recognition.</p>
<p>(B.Sc. Honours):</p> <p>Psychology and Biology</p> <p>(For those entering Honours before 2009.)</p>	<p>Psychology element of Joint Degree</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: At least 65 credits consisting of passes in PS3021 and PS3022 and in modules selected from PS3007 - PS3012,</p> <p>Level 4: 45 credits from 4000-level PS modules. This programme will not provide sufficient psychology credits for BPS recognition</p> <p>Note: the total Honours credits in Biology and in Psychology must equal or exceed 240, and must include a project in either School (PS4050 or BL4200).</p>
<p>(B.Sc. Honours):</p> <p>Psychology and Biology</p> <p>(For those entering Honours in or after 2009.)</p>	<p>Psychology element of Joint Degree</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: At least 60 credits consisting of passes in PS3021 and PS3022 and in modules selected from PS3031 - PS3039/,</p> <p>Level 4: 45 credits from 4000-level PS modules. This programme will not provide sufficient psychology credits for BPS recognition</p> <p>Note: the total Honours credits in Biology and in Psychology must equal or exceed 240, and must include a project in either School (PS4050 or BL4200).</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Psychology and Computer Science</p> <p>(For those entering Honours before 2009.)</p>	<p>Psychology element of Joint Degree</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: 60 credits consisting of passes in PS3007, PS3008, PS3009, (PS3006 or PS3012).</p> <p>Level 4: 45 credits from 4000-level PS modules. see Other Information, for BPS recognition.</p> <p>Note: the total Honours credits in Computer Science and in Psychology must equal or exceed 240.</p>
<p>(B.Sc. Honours): Psychology and Computer Science</p> <p>(For those entering Honours in or after 2009.)</p>	<p>Psychology element of Joint Degree</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: At least 60 credits consisting of passes in modules PS3031 - PS3039.</p> <p>Level 4: 45 credits from 4000-level PS modules.</p> <p>see “Other Information” for additional requirements for BPS recognition.</p> <p>Note: the total Honours credits in Computer Science and in Psychology must equal or exceed 240.</p>
<p>(B.Sc. Honours): Psychology and Economics</p> <p>(For those entering Honours before 2009.)</p> <p>(M.A. Honours) Psychology and Economics</p> <p>(For those entering Honours before 2009.)</p>	<p>Psychology element of Joint Degree</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: 75 credits consisting of passes in PS3007, PS3008, PS3009, PS3010, PS3011, (PS3006 or PS3012).</p> <p>Level 4: 45 credits from 4000-level PS modules</p> <p>Note: This programme will not provide sufficient Psychology credits for BPS recognition.</p>
<p>(B.Sc. Honours): Psychology and Economics</p> <p>(For those entering Honours in or after 2009.)</p> <p>(M.A. Honours) Psychology and Economics</p> <p>(For those entering Honours in or after 2009.)</p>	<p>Psychology element of Joint Degree</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: At least 60 credits consisting of passes in modules PS3031 - PS3039.</p> <p>Level 4: At least 45 credits from 4000-level PS modules</p> <p>Note: This programme will not provide sufficient Psychology credits for BPS recognition.</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Psychology and Film Studies (For those entering Honours before 2009.)</p>	<p>Psychology element of Joint Honours Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: At least 60 credits chosen from 3000-level PS modules Level 4: Up to a further 60 credits Note: This programme will not provide sufficient Psychology credits for BPS recognition.</p>
<p>(M.A. Honours): Psychology and Film Studies (For those entering Honours in or after 2009.)</p>	<p>Psychology element of Joint Honours Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: At least 60 credits chosen from 3000-level PS modules Level 4: Up to a further 60 credits from 3000-level and 4000-level PS modules. Note: This programme will not provide sufficient Psychology credits for BPS recognition.</p>
<p>(B.Sc. Honours): Psychology and Mathematics (For those entering Honours before 2009.)</p>	<p>Psychology element of Joint Degree: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 90 credits consisting of passes in PS3007, PS3008, PS3009, PS3010, PS3011, (PS3006 or PS3012). Level 4: up to a further 60 credits; see Other Information, for BPS recognition.</p>
<p>(B.Sc. Honours): Psychology and Mathematics (For those entering Honours in or after 2009.)</p>	<p>Psychology element of Joint Degree: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: At least 60 credits consisting of passes in PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038. Level 4: Up to a further 60 credits consisting of PS4040 and PS4050; see “Other Information” for additional requirements for BPS recognition.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours): Psychology with Biology (For those entering Honours before 2009.)</p>	<p>Psychology element of Major Degree:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: 110 credits consisting of passes in PS3021 and PS3022 and in modules selected from PS3007 - PS3012.</p> <p>Level 4: At least 40 credits from 4000-level PS modules.</p> <p>Other Information: This degree is recognized by the British Psychological Society.</p> <p>Note: the total Honours credits in Biology and in Psychology must equal or exceed 240, and must include a project in either School (PS4050 or BL4200).</p>
<p>(B.Sc. Honours): Psychology with Biology (For those entering Honours in or after 2009.)</p>	<p>Psychology element of Major Degree:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: At least 90 credits consisting of passes in PS3021, PS3022, PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038.</p> <p>Level 4: At least 40 credits from 4000-level PS modules, see “Other Information” for additional requirements for BPS recognition.</p> <p>Note: the total Honours credits in Biology and in Psychology must equal or exceed 240, and must include a project in either School (PS4050 or BL4200).</p>
<p>M.A. Honours): Psychology with Film Studies (For those entering Honours before 2009.)</p>	<p>Psychology element of Major Degrees:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: 90 credits consisting of passes in PS3007 - PS3011, (PS3006 or PS3012).</p> <p>Level 4: Up to a further 60 credits see “Other Information” for additional requirements for BPS recognition.</p>

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Degree Programmes	Programme Requirements at:
<p>(M.A. Honours): Psychology with Film Studies (For those entering Honours in or after 2009.)</p>	<p>Psychology element of Major Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 60 credits consisting of passes in PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038. Level 4: Up to a further 90 credits from 3000-level and 4000-level PS modules. see “Other Information” for additional requirements for BPS recognition.</p>
<p>(B.Sc. Honours): Psychology with Spanish[^] [^] available also as 'With Integrated Year Abroad Degrees' (Not available to entrants from 2008-09)</p>	<p>Psychology element of Major Degree: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 90 credits consisting of passes in PS3007, PS3008, PS3009, PS3010, PS3011, (PS3006 or PS3012). Level 4: At least 90 credits from PS3021, PS3022, PS4040, and other PS4000 modules.</p>
<p>(M.A. Honours): Psychology with Geography; or Linguistics^{^*} [^] available also as 'With Integrated Year Abroad Degrees' (For those entering Honours before 2009.) * This programme is only available to those already enrolled in it.</p>	<p>Psychology element of Major Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 90 credits consisting of passes in PS3007, PS3008, PS3009, PS3010, PS3011, (PS3006 or PS3012). Level 4: At least 60 credits from PS3021, PS3022, PS4040 and other PS4000 level modules.</p>
<p>(M.A. Honours): Psychology with Geography; or Linguistics^{^*} [^] available also as 'With Integrated Year Abroad Degrees' (For those entering Honours in or after 2009.) * This programme is only available to those already enrolled in it.</p>	<p>Psychology element of Major Degrees: Level 1: 40 credits consisting of passes in both PS1001 and PS1002 Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002 Level 3: 60 credits consisting of passes in PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038. Level 4: At least 90 credits from 3000-level and 4000-level PS modules. see “Other Information” for additional requirements for BPS recognition.</p>

Degree Programmes	Programme Requirements at:
<p>(B.Sc. Honours):</p> <p>Psychology with Linguistics</p> <p>(For those entering Honours before 2009.)</p> <p>This programme is only available to those already enrolled in it.</p>	<p>Psychology with Linguistics:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Levels 3 & 4: 90 credits consisting of passes in PS3007, PS3008, PS3009, PS3010, PS3011, (PS3006 or PS3012) and 90 credits from PS3021, PS3022, PS4040, PS4050 and other PS4000 level modules; LI1002/2, LI2001 and a pass at 11 or better in LI2002, LI3001 (or for qualified students, one of FR3053, GM3077, GM3078, IT3009, ML3009, RU3015, RU3107, SP3011) and 45 credits from LI3002, LI4001, LI4002, LI4098.</p>
<p>(B.Sc. Honours):</p> <p>Psychology with Linguistics</p> <p>(For those entering Honours in 2009.)</p> <p>This programme is only available to those already enrolled in it.</p>	<p>Psychology with Linguistics:</p> <p>Level 1: 40 credits consisting of passes in both PS1001 and PS1002</p> <p>Level 2: 60 credits consisting of passes at 11 or better in both PS2001 and PS2002</p> <p>Level 3: 60 credits consisting of passes in PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038.</p> <p>Level 4: At least 90 credits from 3000-level and 4000-level PS modules; see Other Information for BPS recognition.</p> <p>Levels 3 & 4: 60 credits consisting of passes in PS3031, PS3032, PS3033, PS3034, PS3035 or PS3036, PS3037 or PS3038, and 120 credits from PS3021, PS3022, PS4040, PS4050 and 3000-level and 4000-level PS modules. LI1002/2, LI2001 and a pass at 11 or better in LI2002, LI3001 (or for qualified students, one of FR3053, GM3077, GM3078, IT3009, ML3009, RU3015, RU3107, SP3011) and 45 credits from LI3002, LI4001, LI4002, LI4098.</p>

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Psychology (PS) Modules

PS3021 Research Design and Analysis I

Credits: 15 Semester: 1

Description: This module is designed to provide a basic understanding of research design and statistics that will provide the foundations for independent empirical research and critical analysis required in the final year of the Honours programme. Emphasis will be placed on the acquisition of design and analysis skills and an understanding of the underlying philosophy that guides research. The syllabus will include core aspects such as ethical issues in research, basic statistics, technical writing and the use of statistical packages.

Class Hour: 9.00 am - 12.00 noon / 2:00-5:00pm Monday

Teaching: One lecture and one 3 hour laboratory class or seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

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PS3022 Research Design and Analysis 2

Credits: 15 Semester: 2

Prerequisite: PS3021

Description: This module is designed to provide a more advanced understanding of research design and statistics. Emphasis will be placed on the acquisition of analytical skills covering typical research situations encountered in the behavioural sciences. The syllabus will include advanced analysis of variance, multivariate statistics and non-parametric statistics, as well as training in computerised data analysis and presentation.

Class Hour: 9.00 am - 11.00 am / 2:00-5:00pm Monday

Teaching: One lecture and one 3 hour laboratory class or seminar.

Assessment: Continuous Assessment = 40%, 2 Hour Examination = 60%

PS3031 Conceptual Issues and Theoretical Perspectives

Credits: 10 Semester: 1 (first half)

Anti-requisite: PS3012

Description: This module addresses the historical and philosophical background to current debates in psychology. The module will be taught via lectures and seminars including student presentations. Emphasis will be placed on the development of critical analysis of alternative models and levels of explanations of behaviour, and the ability to relate conceptual debates in psychology to issues in the real world.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: Continuous Assessment = 100%

PS3032 Assessment in Clinical Psychology

Credits: 10 Semester: 2 (second half)

Anti-requisite: PS3012

Description: This module presents psychopathological conditions and provides a basic understanding of the underlying neuronal and/or cognitive-behavioural mechanisms. Examples will be drawn from the field of clinical psychology and/or clinical neuropsychology. The module will further explore in detail the tools and procedures used to assess psychopathological conditions by discussing their theoretical/statistical background and by demonstrating how to use these tools in clinical and experimental settings.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: One-and-a-half hour Examination = 100%

PS3033 Developmental Psychology

Credits: 10 Semester: 2 (first half)

Anti-requisite: PS3010/PS3011

Description: This module is designed to equip students with an appreciation of key principles, concepts, methods and discoveries in developmental psychology, with an emphasis on evolutionary and comparative perspectives that are a particular strength of such work in St Andrews. The module aims to offer a broad perspective spanning infancy to childhood, and a range of key topics in cognitive and social development.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: Continuous Assessment = 100%

PS3034 Social Psychology

Credits: 10 Semester: 2 (first half)

Anti-requisite: PS3010/PS3011

Description: This module explores in depth key topics across the breadth of social psychological enquiry. A variety of research approaches will be examined in order to develop the scientific understanding and critical skills in this field. Approaches that will be covered include social cognition, social identity and the study of intergroup relations. In each case, the strengths and limitations of the approaches are explored, and theoretical knowledge will be linked to current events.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: Continuous Assessment = 100%

PS3035 Cognitive & Behavioural Neuroscience

Credits: 10 Semester: 1 (first half)

Anti-requisite: PS3008 and PS3009

Description: This module aims to provide an understanding of psychological knowledge in several inter-related domains concerned with the biological bases of behaviour. Emphasis will be laid on basic experimental science from analysis of molecular and synaptic events, single cell studies, brain activity scans, and clinical studies, and the relationship between cognitive, emotional, behavioural, neurological and physiological processes will be examined.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: One-and-a-half hour Examination = 100%

PS3036 Evolutionary and Comparative Psychology

Credits: 10 Semester: 2 (second half)

Anti-requisite: PS3010/PS3011

Description: This module will address evolutionary and comparative approaches to psychology. The aim is to provide an understanding of major evolutionary forces and how they have shaped animal and human behaviour and psychology. Key principles, concepts and methodologies will be introduced and related to specific topic areas such as the evolution of social behaviour and the evolutionary origins of language and cognition.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: Continuous Assessment = 100%

PS3037 Perception

Credits: 10 Semester: 1 (second half)

Anti-requisite: PS3007

Description: The aim of this module is to develop an understanding of visual perception and its functions. Stress will be laid on the integration of findings from physiology, neuropsychology, anatomy, and psychophysics. Topic areas covered will include theories of human vision and their application to understanding our ability to perceive distinct visual properties, for example the shape, size, location and identity of objects. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: One-and-a-half Hour Examination = 100%

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PS3038 Cognition

Credits: 10 Semester: 1 (second half)

Anti-requisite: PS3007

Description: The aim of this module is to develop an understanding of human memory and attention. Topic areas covered will include theories of attention, short and long term memory, processes involved in memory encoding, maintenance and retrieval. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory. Lectures will be accompanied by practical classes, in which students will gain experience of the experimental methods used in cognitive research, and seminars in which research papers will be critically evaluated.

Class Hour: 9.00 - 11.00 am and 2.00 - 5.00 pm.

Teaching: One 2 hour lecture and one 3 hour laboratory class or seminar

Assessment: One-and-a-half Hour Examination = 100%

PS4040 Psychology Review

Credits: 10 Semester: Whole Year

Co-requisite: PS3021 and PS3022.

Description: This module will foster the abilities needed to search, collate and integrate an extensive area of psychological literature. Emphasis will be placed on analytical and methodological issues, and this module therefore complements PS3021 and PS3022. A systematic approach to the analysis of a specific body of literature will be encouraged. Students are invited to identify preferred subject matters so long as they fall within the area of the supervisor's expertise. Supervision will be given to aid students in the collation, planning and organisational phases of their work. The review will be limited to 5,000 words.

Teaching: Individual supervision by pre-assigned member of staff

Assessment: Review = 100%

PS4050 Psychology Project

Credits: 30 Semester: Whole Year

Prerequisites: PS4040, PS3021 and PS3022. This module is normally completed in the first year of the Honours Programme.

Description: The aim of the project is to develop and foster the skills of experimental design, appropriate research management and statistical analysis. A wide choice of topics is possible, but the skills developed in modules PS3021, PS3022 and PS4040 are an essential preparation. The empirical part of the project may be conducted with another student, to allow greater research scope and the choice of more realistic problems, but all analysis and report-writing must be carried out individually. Topics range over all areas of psychology under active investigation in the School, and effort is made to arrange for students to work in one of their preferred areas.

Teaching: Individual supervision by pre-assigned member of staff

Assessment: 6,000 word Project = 100%

PS4060 Review Essay

Credits: 15 Semester: Whole Year

Prerequisite: Available only to students in the second year of the Honours Programme.

Description: In this module candidates will choose a title from a range of topics and questions and write an unsupervised review essay addressing it. Titles will be designed to allow candidates both to tackle an issue of current active interest in psychology and to display their ability to appreciate links between material from different areas of psychological inquiry.

Teaching: This is an unsupervised assignment

Assessment: 5,000 Word Dissertation = 100%

PS4064 Working Memory

Credits: 15 Semester: 1

Prerequisites: Available only to students in the second year of the Honours Programme.

Description: This module will have both a theoretical and an applied aspect. It will illustrate how cognitive models are developed, what type of evidence is important in sustaining this development and the weight of evidence required to significantly alter the direction of such development. In its theoretical aspect, the module will investigate an influential model of memory - the Working Memory Model. The model is wide-ranging with aspects concerned with verbal and visual memory and with attention. Increasingly, there is neuropsychological input to the model's development. In its applied aspects, the module will acknowledge the fact that WM is often used as a theoretical backdrop to our understanding of a variety of different "real life" matters. Teaching will be based on seminars in which class members will be expected to play an active part, contributing on the basis of their own extensive reading. Emphasis will be placed on development of the skill of critical evaluation of research reports, and those skills necessary for going beyond current topics into future directions of research.

Class Hour: 11.00 am - 1.00 pm.

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4065 Visual Perception

Credits: 15 Semester: 1

Prerequisites: Available only to students in the second year of the Honours Programme.

Description: This module will include lectures and seminars in which class members will be expected to play an active part, contributing on the basis of their own extensive reading and reviewing of research papers. The aim of the module is to develop an advanced understanding of visual recognition and its functions. Emphasis will be placed on development of the skill of critical evaluation of evidence and theory. Topics will be selected from those of particular current interest in visual processing (e.g. information conveyed by the face). The module emphasises the biological underpinnings of perception and will draw on evidence from a variety of experimental methods (e.g. neuroscience and psychophysics).

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4066 Neural Modelling

Credits: 15 Semester: 1

Prerequisites: Normally available only to students in the second year of the Honours Programme.

Description: This module aims to develop an understanding of some of the fundamental principles of brain function in terms of the information processing involved in psychological phenomena and working models of specific neural circuits in the brain. Teaching will be based on seminars in which class members will be expected to play an active part, contributing on the basis of their extensive reading. Emphasis will be placed on developing the skill of critical evaluation of research reports, and those skills necessary for going beyond current topics into future directions of research. There will be some flexibility on the choice of topics to be covered by the seminars, but they may include some of the following topics: models of processes involved in perception, memory, neural organisation (e.g. neural maps), the representation of information and knowledge (e.g. neural coding and decoding) and models of cognitive processes.

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

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PS4071 Behavioural Neuroscience

Credits: 15 Semester: 2

Prerequisites: Available only to students in the second year of the Honours Programme.

Description: The overall aim of this module is to allow students access to current research in the area of behavioural neuroscience. Possible topics include motivation, learning and attention. Past themes explored in the module include: the relationship between ‘normal’ learning and addiction; the transition from goal-directed action to stimulus-response habit; the neural basis of compulsive gambling; the efficacy of biological treatments of addiction; and the behavioural and neural effects of MDMA (‘ecstasy’). Results from both human and animal research will be considered in parallel, with examples of papers ranging from molecular neuroscience to neuropsychology. The format of the module will include lectures (which are designed to provide the students with the background necessary to read research articles); guided seminars and student presentations summarising research articles. In order to maximise the benefits of the students’ presentations, each student will meet with the lecturer at least twice to discuss the topic and content of their talk.

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4074 Cognitive Psychology and the Emotional Disorders

Credits: 15 Semester: 2

Prerequisites: Available only to students in the second year of the Honours Programme.

Description: This module is designed to demonstrate how theories from cognitive psychology can enhance our understanding of the emotional disorders. Teaching will be based on individual seminar presentations followed by class discussion. In the presentations students will be expected to review and critically evaluate original research. Seminars will focus on topics such as autobiographical memory and depression, autobiographical memory and anxiety, attentional bias in depression and anxiety, and interpretative biases in depression and anxiety. At the end of the seminar series, students should understand how depression and anxiety can be differentiated on the basis of these biases.

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4080 Social Memory

Credits: 15 Semester: 2

Prerequisite: Only available to students in the second year of the Honours Programme.

Description: This module aims to develop an advanced understanding of the role of memory in everyday life. In particular it will consider the latest theoretical and methodological advances in the study of memory for self and for others drawing upon studies from the social, cognitive, and social neuroscience literatures. Core theoretical issues such as memory updating, memory malleability, and the role of memory in identity will be considered alongside a range of practical everyday problems and possible solutions. Teaching will be seminar based and students will be expected to read independently and contribute actively to sessions. Emphasis will be placed on the development of critical skills and the ability to relate individual studies and theories to broader conceptual debates in psychology and issues in the real world.

Class Hour: 11.00 am - 1.00 pm.

Teaching: Two hour seminar.

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4081 Formation and Reduction of Prejudice and Stereotyping

Credits: 15 Semester: _____

Availability: Not available in 2009-10

Prerequisite: Only available to students in the second year of the Honours Programme.

Description: This advanced-level module aims to develop students' knowledge about how prejudice and stereotyping are formed and also the practical steps that can be taken to reduce them. Sessions will include material on the effects of social categorisation processes, stereotype formation and change, automaticity of stereotyping intergroup bias from the "victim's" perspective, intergroup contact, and acculturation. Teaching will be seminar-based. Students will be expected to read and prepare for sessions independently and show active involvement during sessions, for example, in the form of semi-formal presentations of read material. The module focuses on the development of analytic and critical skills and the capacity to link different theoretical models to current debates in social psychology.

Class Hour: To be arranged.

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4083 Psychology of Music

Credits: 15 Semester: 1

Prerequisite: Only available to students in the second year of the Honours Programme.

Description: The aim of the module is to introduce students to psychological processes underlying music perception, cognition, and performance. The relationship between musical phenomena and mental functions will be illustrated. The module will cover different aspects of music perception including psychoacoustics and sound perception, music cognition including music memory emotion and expectancies, skilled performance as well as abnormalities in music perception and performance. The module will be taught in the form of seminars including student presentations. Emphasis will be placed on the development of critical thinking and the ability to relate conceptual debates in psychology to issues in the real world.

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4084 Psychology of Visual Art

Credits: 15 Semester: 2

Prerequisite: Only available to students in the second year of the Honours Programme.

Description: This module will explore the value and limitations of a scientific approach to understanding visual art, and the extent to which a neurological theory of aesthetic experience is possible. These questions will be addressed from evolutionary, cognitive and neurological perspectives. Examples of specific topics that will be tackled include: can the appreciation of art be reduced to a set of physiological responses?; is it possible to describe laws of aesthetic experience?; can particular works of art be understood in terms of the known properties of the visual system?; what happens to visual artists with neuropsychological deficits? The module will be based on a critical analysis of contemporary scientific studies in the field.

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

Psychology – Honours 2009/10 – August 2009

PS4085 Evolution and Development of Social and Technical Intelligence

Credits: 15 Semester: 2

Prerequisite: Only available to students in the second year of the Honours Programme.

Description: The last two decades have witnessed a surge of research on social and technical intelligence, both in humans and an increasingly wide range of non-human animal species. This module surveys the principal discoveries, integrating field and captive studies, as well as both observational and experimental methodologies, to trace the evolution and development of aspects of social intelligence such as imitation and theory of mind, and technical intelligence, such as tool use and understanding of causality. Key aims include appreciating the range of methodologies that have been developed and how these can be used to trace the evolution and ontogeny of the underlying psychological mechanisms.

Class Hour: 9.00 am - 11.00 am

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

PS4086 Origins and evolution of mind reading (Theory of Mind)

Credits: 15 Semester: 1

Prerequisite: Only available to students in the second year of the Honours Programme.

Description: The module will offer a comparative approach to the emergence of the ability to understand mental states in children and non-human primates, and its alteration in autism. This ability (also known as Theory of Mind) is at the heart of many of humans unique cognitive achievements, but their origins can be traced back in evolution and development. The course will discuss the current state of research in this area, emphasizing both empirical and conceptual aspects posed by the combination of the evolutionary and developmental approaches.

Class Hour: 11.00 am - 1.00 pm

Teaching: Two hour seminars

Assessment: Continuous Assessment = 25%, 2 Hour Examination = 75%

Sustainable Development

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are 540 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

Other Information: In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programme:	Programme Requirements at:
(B.Sc. Honours or M.A. Honours): Sustainable Development	<p>Single Honours Sustainable Development:</p> <p>Level 1: 20 credits comprising passes in SD1002; <i>plus</i> 100 credits from other 1000 modules appropriate to chosen B.Sc./M.A. path.</p> <p>Level 2: 60 credits comprising passes at 11 or better in SD2001 and SD2002; <i>plus</i> 60 credits from two or more other modules, these normally being from a partner discipline appropriate to the chosen B.Sc./M.A. path, and in modules suitable to allow the further study of that subject at Honours level. Entry to Honours with passes at 11 or better in SD2001 or SD2002 and only one other suitable 2000 level module may be permitted at the discretion of the Head of School.</p> <p>Level 3 & Level 4: 120 credits comprising passes in SD3001, SD3002, SD4001 and SD4002; <i>plus</i> 120 additional 3000 and 4000 level credits appropriate to chosen B.Sc./M.A. pathway. Of the 240 credits required for an Honours degree, 90 credits must be at 4000 level and there must be no more than 30 credits at sub-honours level.</p>

Alongside the core SD modules students will normally select modules mainly from one other discipline area. For example, for a B.Sc. Single Honours Degree, modules will typically be selected from partner disciplines such as geography and /or biology and/or chemistry and/or maths & statistics. For an M.A. Single Honours Degree, modules will typically be selected from management and/or philosophy and/or economics and/or modern history and/or international relations and/or social anthropology. While many students will identify a principal partner discipline to accompany SD, it is possible for a student to select modules from more than one other disciplinary area to develop their sustainable development pathway so long as their overall selection conforms with the regulations laid down for M.A./B.Sc Honours degrees, their choice meets with the approval of the Head of Schools in question, and appropriate prerequisites for their selected modules are in place.

Sustainable Development – Honours 2009/10 – August 2009

Sustainable Development (SD) Modules

SD3001 Case Studies in Sustainable Development

Credits: 20 Semester: 1

Prerequisite: SD2001

Description: The purpose of this module is to introduce students to the multi-disciplinary nature of approaches used to address global sustainability concerns. Students will be taken through a series of real world examples that demonstrate the broader issues associated with sustainable development. The module is taught collaboratively by staff from four Schools (Geography & Geosciences, Biology, Chemistry and Mathematics & Statistics). Key themes such as resources, population and health, energy, land use and decision making will be explored and case studies from around the world will provide students with both fundamental insights and the essential analytical skills required for understanding and critically analysing research reports and other textual information associated with sustainable development.

Class Hour: To be arranged.

Teaching: Three lectures and 2 two hour practicals per week

Assessment: Continuous Assessment = 50%, Three Hour Examination = 50%

SD3002 Review Essay in Sustainable Development I

Credits: 20 Semester: 2

Prerequisite: SD2001 or SD2002

Description: This module involves the student in isolating a particular sustainable development topic (not directly involved in a selected option module), conducting a bibliographic search on that topic and then presenting a critical review of the content of the material obtained from a reading of the relevant books and journal articles. The topic chosen arises from a student's own particular interests but is finalised in discussions with a tutor. The final report is a maximum of 7,000 words in length.

Class Hour: To be arranged.

Teaching: One introductory lecture and tutorial and then meetings as required with supervisor.

Assessment: Continuous Assessment = 100%

SD4001 Case Studies in Sustainable Development II

Credits: 20 Semester: 1

Prerequisite: SD3001

Description: This module builds upon the knowledge and skills students acquired in SD3001. Like SD3001, the module is taught collaboratively by staff from several Schools. Broad themes such as resources, climate change, food and energy will be used in conjunction with further real-world case studies to examine in detail issues of concern to all peoples of the world. Students will draw upon the multi-disciplinary skills they acquired in SD3001 but these skills will be enhanced to deal with examples that demand more advanced quantitative, modelling and qualitative analysis techniques. It is intended that these skills will serve students in their research dissertation.

Class Hour: To be arranged.

Teaching: Three lectures and 2 two hour practicals per week

Assessment: Continuous Assessment = 50%, Three Hour Examination = 50%

SD4002 Dissertation in Sustainable Development

Credits: 60 Semester: Whole Year

Prerequisite: Available only to students who intend an Honours Degree in Sustainable Development.

Description: Students select a research question in Sustainable Development, mount a research programme to investigate the topic, and write a dissertation on the work. The topic is selected during the second semester of the junior honours year; data can be collected during the following vacation with data analysis and the writing of the dissertation taking place over both semesters of the second year of the Honours Programme. Each student is supervised by a member of the teaching staff from an appropriate disciplinary area who will ensure that the topic chosen is viable and advise students on data collection and analysis. The dissertation is a maximum of 15,000 words in length.

Class Hour: To be arranged.

Teaching: One introductory lecture and tutorial and then meetings as required with supervisor.

Assessment: Continuous Assessment = 100%

Sustainable Development – Honours 2009/10 – August 2009

GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change

Credits: 15 Semester: 2

Prerequisites: GE2011/ GE2012 or GS2011/GS2012 or SD2001 or BL2105. Familiarity with basic chemistry and mathematics is desirable, but not essential.

Description: Terrestrial ecosystems play a central role in modulating the flow of energy and materials in the Earth system, regulating trace gas exchange with the atmosphere, the transfer of carbon and nutrients with rivers and oceans, and the natural attenuation of pollutants. Understanding how terrestrial ecosystems function is crucial to addressing problems such as climate change, stratospheric ozone loss, and environmental pollution. This module will develop principles of ecosystems ecology and biogeochemistry, focusing on major elemental cycles, soil processes, and human activity. In addition to students in Geography and Geosciences, this module also welcomes students from Sustainable Development, Biology and Chemistry.

Class Hour: To be arranged.

Teaching: Two lectures and occasional tutorials.

Assessment: Continuous Assessment = 30%, 2 Hour Examination = 70%

Modules

InterDisciplinary (ID) Modules

ID4001 Communication and Teaching in Science

Credits: 15 Semester: 1

Availability: Available only to final year students who have been accepted following interview.

Description: This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.

Class Hour: Flexible

Teaching: Occasional tutorials and a half-day training session.

Assessment: Continuous Assessment = 100%

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	<i>credits</i>	<i>semester</i>	<i>year taught</i>	<i>page ref.</i>
Ancient History				
AN3020 Principles & Techniques in Archaeology	30	1	all	8.8
AN4108 The Disintegration of the Roman Empire	30	1	10-11	8.9
AN4117 Art of the Roman Empire	30	2	09-10	8.9
AN4118 Julius Caesar	30	2	09-10	8.9
AN4121 The Ancient City of Rome	30	2	10-11	8.9
AN4127 In the footsteps of the Ancients: exploring the archaeology and topography of Greece	30	2	09-10	8.10
AN4130 The Roman Army	30	1	10-11	8.10
AN4132 Archaic Greece	30	2	10-11	8.10
AN4145 The Archaeology of Roman Britain	30	1	09-10	8.10
AN4146 The Supremacy of Greece: Athens and Sparta 479 - 362 BCE	30	1	09-10	8.11
AN4147 Government and Society under Diocletian	30	2	09-10	8.11
AN4149 The Archaeology of Minoan Crete	30	1	n/a 09-10	8.11
Arabic				
AR3201 Media Arabic	30	1	all	14.12
AR3206 Literary Arabic	30	2	all	14.12
AR3236 The Postcolonial Arabic Novel in Translation	30	1	n/a 09-10	14.12
AR3250 Key Texts in Islamic Religion and Culture	30	2	all	14.12
AR3301 Study Abroad Project in Arabic	30	1	all	14.13
AR4205 Advanced Arabic	30	1	all	14.13
AR4232 Modern Arabic Literature: Exile and Identity	30	2	09-10	14.13
AR4235 Modern Arabic Literature: Novellas	30	2	n/a 09-10	14.13
AR4251 Key Texts in Islamic Religion and Culture 2	30	2	09-10	14.14
AR4999 Dissertation in Arabic and Middle East Studies	30	1	all	14.14
Art History				
AH3087 Aspects of Surrealism	30	2	10-11	4.2
AH3104 The Age of Klimt, Olbrich, and Mucha	30	2	10-11	4.3
AH3116 Aspects of American Art in the Twentieth Century	30	1	10-11	4.3
AH3118 European Gothic Architecture 1140 - 1540	30	2	10-11	4.3
AH3121 Histories of Photography, 1835-1905	30	2	09-10	4.4
AH3122 The British Country House, 1605 - 1800	30	2	09-10	4.4
AH3130 Approaches to Art History	30	1	all	4.4
AH4076 Rubens and Rembrandt: Parallel Worlds	30	1	10-11	4.5
AH4077 Patronage and Collecting at the Courts of Charles I and Philip IV	30	2	09-10	4.5
AH4078 Art and Politics in France, 1945-1975	30	1	09-10	4.5
AH4079 Art and Life at the Italian Renaissance Court: Urbino 1440-1640	30	2	08-09	4.5
AH4080 Northern Renaissance Art	30	2	09-10	4.6

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	credits	semester	year taught	page ref.
Art History (continued)				
AH4097 60-Credit Dissertation in Art History	60.0	whole year	all	4.6
AH4099 30-Credit Dissertation in Art History	30	whole year	all	4.6
AH4105 British Furniture, 1700 - 1840	30	1	09-10	4.6
AH4106 British Furniture, 1840 - 1920	30	2	09-10	4.7
AH4107 Wyndham Lewis and English Art, 1900-1939	30	2	09-10	4.7
AH4108 Contemporary Scottish Painting, 1950-Present	30	2	08-09	4.7
AH4130 Realism and Symbolism in Russian Art 1860-1910	30	2	09-10	4.7
AH4131 The New Style in Eastern Europe: Art Nouveau and National Romanticism 1890-1914	30	1	10-11	4.8
AH4132 Titian and His Age	30	1	09-10	4.8
AH4133 Venetian Art in the Age of Reform	30	1	10-11	4.8
AH4134 Sculpture and Society in Early Renaissance Italy, c.1260-1400	30	1	09-10	4.8
AH4135 Sculpture in Italy from Donatello to Verrocchio	30	1	10-11	4.9
AH4139 Scottish Photography and its Context	30	1	09-10	4.9
AH4140 The Grand Tour: Artistic Relations between Britain and Italy in the Eighteenth Century	30	2	10-11	4.9
AH4142 Aspects of Modern Photography, 1910-1955	30	1	10-11	4.9
AH4145 Palladio and Palladianism (c.1540-c.1800)	30	1	10-11	4.10
AH4150 A History of the Dome, from the Pantheon to the Millennium	30	2	09-10	4.10
AH4151 Architecture & Culture in Rome, c. 1564-1766	30	2	09-10	4.10
AH4152 To School? Learning: Artistic Impressions and Architectural Solutions	30	1	09-10	4.11
AH4155 New York Modernism: Encounters at Mid-Century	30	1	n/a 09-10	4.11
AH4157 The Age of Vermeer: Dutch Genre Painting in the Seventeenth Century	30	1	09-10	4.11
AH4158 The Portrait through Time	30	2	09-10	4.12
AH4160 The Age of Giotto	30	1	09-10	4.12
Astronomy				
AS3011 Galaxies	10	2	09-10	20.6
AS3012 Exoplanetary Science	10	2	all	20.7
AS3013 Computational Astrophysics	10	2	all	20.7
AS3015 Nebulae	15	1	all	20.7
AS4021 Gravitational Dynamics	10	2	n/a 09-10	20.8
AS4022 Cosmology	10	2	all	20.8
AS4023 Stars	15	2	all	20.8
AS4025 Observational Astrophysics	15	1	all	20.9
AS4103 Project in Astrophysics 1	30	whole year	all	20.9
AS5001 Astronomical Data Analysis	15	1	all	20.9
AS5002 Star Formation and Plasma Astrophysics	15	1	all	20.9

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Astronomy (continued)				
AS5003 Contemporary Astrophysics	15	1	all	20.10
AS5101 Project in Astrophysics 2	60	whole year	all	20.10
Biology				
BL3000 Field Course	5.0	summer	all	5.8
BL3301 Protein Structure & Function	20	1	all	5.9
BL3302 Gene Regulation	20	1	all	5.9
BL3303 Membranes & Cell Communication	20	1	all	5.9
BL3306 Environmental Physiology	20	1	all	5.10
BL3307 Evolution	20	1	all	5.10
BL3308 Aquatic Ecology	20	1	all	5.10
BL3309 Ecosystems and Conservation	20	2	all	5.10
BL3310 Metabolism and Bioenergetics	20	2	all	5.11
BL3311 Infection & Disease	20	2	all	5.11
BL3312 Pharmacology	20	2	all	5.11
BL3313 Neuroscience	20	2	all	5.12
BL3315 Developmental Biology	20	2	all	5.12
BL3316 Animal Plant Interactions	20	2	all	5.12
BL3318 Biology of Marine Organisms	20	2	all	5.13
BL3319 Animal Behaviour	20	2	al	5.13
BL3400 Tropical Research and Field Study	20	2	al	5.13
BL4200 Literature-based Research Project	45	whole year	all	5.13
BL4201 Experimental Research Project	60	whole year	all	5.14
BL4210 Practical Skills for Molecular Biology & Biochemistry	15	1	all	5.14
BL4211 Antimicrobials - Mode of Action and Resistance	15	1	all	5.14
BL4212 Flavoproteins	15	1	all	5.14
BL4213 Molecular Virology	15	1	all	5.15
BL4215 Bacterial Virulence Factors	15	1	all	5.15
BL4216 Structure-based Drug Discovery	15	1	all	5.15
BL4219 Biocontrol: Microbes as Agents of Biological Control of Pests	15	1	all	5.16
BL4220 Geomicrobiology - from Gold Mines to Global Warming	15	1	all	5.16
BL4221 Conus Venum Peptides: Receptor and Ion Channel Targets	15	1	all	5.16
BL4222 Clinical Biochemistry	15	1	all	5.17
BL4230 Molecular Biology and Biochemistry of Neurodegeneration	15	1	all	5.17
BL4231 Neuromodulation	15	2	all	5.17
BL4232 Neural Mechanisms of Predatory and Avoidance Behaviours	15	1	all	5.18
BL4233 Physiology and Pathology of Human Aging	15	1	all	5.18
BL4238 Systems Physiology	15	1	all	5.18
BL4242 Cellular Aspects of Development	15	1	n/a 09-10	5.19

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Biology (continued)				
BL4243 The Physiology of Endurance Performance	15	1	all	5.19
BL4245 Applied Physiology of Sports	15	2	all	5.19
BL4247 Practical Whole Animal Physiology	15	2	all	5.19
BL4248 Human Physiology of Diving	15	1	all	5.20
BL4249 Scientific Diving	15	2	all	5.20
BL4250 Stress Physiology of Fish	15	1	all	5.20
BL4254 Fisheries Research	15	2	all	5.20
BL4255 Marine Biotechnology	15	1	n/a 09-10	5.21
BL4256 Marine Acoustics	15	2	n/a 09-10	5.21
BL4257 Marine Invertebrate Larval Ecology	15	1	all	5.21
BL4258 Foraging in Marine Mammals	15	1	all	5.21
BL4259 Marine Mammals and Man	15	2	all	5.22
BL4260 Biological Oceanography	15	2	all	5.22
BL4261 Studying Marine Mammals in the Wild: A field course in Iceland	15	before sem1	all	5.22
BL4265 Ecological Modelling	15	2	all	5.23
BL4266 Conservation Research Methods: Estimating Population Size	15	1	all	5.23
BL4267 Conservation Research Methods: Sampling Individuals and Communities	15	2	all	5.23
BL4268 Conservation and Management of Biodiversity	15	1	all	5.24
BL4269 Icelandic Ecology: Conservation and Sustainable Development	15	1	all	5.24
BL4270 Plant-environment Interactions	15	2	all	5.24
BL4272 Molecular Ecology	15	1	all	5.24
BL4273 Bioinformatics for Biologists	15	1	n/a 09-10	5.25
BL4274 Marine Invertebrates in Evolution and Development	15	1	all	5.25
BL4275 Evolution in Action	15	1	all	5.25
BL4276 Speciation	15	1	all	5.25
BL4280 Evolution and Human Behaviour	15	1	all	5.26
BL4281 Vocal learning in Animals	15	1	all	5.26
BL4282 Biology & Behaviour of Social Insects	15	2	all	5.26
BL4284 Breeding Systems	15	2	all	5.26
BL4285 Complex Systems in Animal Behaviour	15	2	all	5.27
BL4290 Networks in Biology	15	2	n/a 09-10	5.27
BL4291 Science, Museums and the Public	15	1 & 2	all	5.27
BL4292 History of Genetics and Evolution	15	2	all	5.27
BL4293 Bioethics	15	1	all	5.28
GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change	15	1	all	5.28, 22.3
ID4001 Communication and Teaching in Science	15	1	all	5.28, 23.1

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Bute Medical School				
MD3001 Medicine Honours 1 (Cardiovascular & Respiratory Systems)	60	1	all	6.1
MD3002 Medicine Honours 2 (Reproductive, Renal & Gastrointestinal Systems)	60	2	all	6.2
MD4001 Medicine Honours 3 (Central Nervous System & Endocrine Systems)	60	1	all	6.2
MD4002 Medicine Honours 4 (Student-selected component)	40	2	all	6.3
MD4003 Medicine Honours 5 (Applied Medical Science)	20	2	all	6.3
Chemistry				
CH3431 Chemistry Workshop	10	1	all	7.13
CH3441 Mini Chemistry Project	20	2	all	7.13
CH3442 External Placement for Chemical Sciences	20	2	n/a 09-10	7.13
CH3511 Main Group Chemistry	10	2	all	7.14
CH3512 Organometallic Chemistry	10	1	all	7.14
CH3513 Advanced Solid State Chemistry	10	1	all	7.14
CH3521 Inorganic Chemistry Laboratory	10	2	all	7.14
CH3612 Synthetic Methodology	10	2	all	7.14
CH3613 Carbohydrate and Nucleic Acid Chemistry	10	2	all	7.15
CH3614 Electron Flow in Organic Chemistry	10	2	all	7.15
CH3621 Organic Chemistry Laboratory	10	1	all	7.15
CH3712 Quantum Theory of Atoms, Molecules and Solids	10	2	all	7.15
CH3713 Sustainable Chemistry in Relation in the Semiconductor Industry	10	2	n/a 09-10	7.15
CH3714 Surface Chemistry and Advanced Physical Chemistry	10	2	n/a 09-10	7.16
CH3715 Introduction to analysis of materials	10	2	all	7.16
CH3716 Quantitative Aspects of Medicinal Chemistry	10	1	all	7.16
CH3717 Statistical Mechanics and Computational Chemistry	10	1	all	7.16
CH3721 Physical Chemistry Laboratory	10	1	all	7.17
CH3722 Materials Laboratory	10	1	all	7.17
CH4441 External Placement	90	whole year	all	7.17
CH4442 Chemistry Research Project	40	whole year	all	7.17
CH4443 Chemistry Research Project for Non-graduating Students	45	either	all	7.17
CH4444 Chemistry Research Project	60	either or both	all	7.18
CH4445 Chemistry Research Project for Non-graduating Students	90	whole year	all	7.18
CH4446 Chemistry Research Project for Non-graduating Students	120	whole year	all	7.18
CH4447 Level 4000 Project for Chemistry/Pharmacology	40	whole year	all	7.18
CH4448 Chemistry Project for Chemistry & Geoscience	20	1	all	7.18
CH4451 MChem Distance Learning	30	whole year	all	7.19
CH4452 Materials Science Distance Learning	30	whole year	all	7.19
CH4461 Integrating Chemistry	10	1	all	7.19

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Chemistry (continued)				
CH4462 Integrating Chemistry for Medicinal Chemistry	10	1	all	7.19
CH4511 Inorganic Reaction Mechanisms and Bioinorganic Chemistry	10	1	all	7.20
CH4512 Chemistry in the Natural Environment	10	2	all	7.20
CH4611 Target Synthesis and Medicinal Chemistry	10	1	all	7.20
CH4612 Blockbuster Pharmaceuticals	10	1	all	7.20
CH4613 Natural Products and Society	10	2	all	7.21
CH4711 Physical Chemistry of Solutions	10	1	all	7.21
CH4712 Energy Conversion and Storage	10	2	all	7.21
CH4713 Interactions of Light with Matter	10	2	all	7.21
CH5441 Research Project	40	whole year	all	7.21
CH5461 Integrating Chemistry	10	1	all	7.22
CH5462 Integrating Chemistry for Medicinal Chemistry	10	1	all	7.22
CH5511 Homogeneous Catalysis	10	1	all	7.22
CH5513 Inorganic Rings, Cages and Clusters and Macrocyclic Chemistry	10	2	all	7.22
CH5514 Advanced Coordination Chemistry	10	2	all	7.23
CH5515 Characterisation of Solids	10	2	all	7.23
CH5611 Asymmetric Synthesis and Retrosynthesis	10	1	all	7.23
CH5612 Natural Products, Biosynthesis and Enzyme Co-factors	10	2	all	7.23
CH5613 Reactive Intermediates	10	2	all	7.23
CH5614 Chemical Biology	10	2	all	7.24
CH5615 Advanced Pharmaceutical Chemistry	10	1	all	7.24
CH5616 Molecular Recognition	10	2	all	7.24
CH5711 Advanced Spectroscopic Methods	10	1	all	7.24
CH5712 Functional Materials / Electrons in Solids	10	2	all	7.24
CH5713 Surface Science and Heterogeneous Catalysis	10	2	all	7.25
CH5714 Statistical Mechanics and Quantum Mechanics	10	2	all	7.25
FR5810 Science Project Report in French	30	whole year	all	7.25
GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change	15	2	all	7.25
ID4001 Communication and Teaching in Science	15	1	all	7.26
ID4441 Combined Chemistry and Geoscience Project	35	both	all	7.26
Classical Studies				
CL4413 Logos, Nature, and Psyche: The Origins of Western Thought	30	1	10-11	8.12
CL4416 Responses to War: Civic Drama and Athenian Culture	30	2	10-11	8.12
CL4420 Fame, Tradition, and Narrative: Homer's <i>Iliad</i>	30	1	09-10	8.12
CL4421 The Ancient and Modern Novel	30	1	n/a 09-10	8.13
CL4426 Geography and Travel Writing in the Ancient World	30	2	09-10	8.13
CL4429 Death and Dying in Ancient Greece	30	2	09-10	8.13
CL4432 Latin Literature and Roman Emperors	30	2	10-11	8.14

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Classical Studies (continued)				
CL4433 Religions of the Greeks	30	1	10-11	8.14
CL4436 Alexander the Great	30	2	09-10	8.14
CL4441 Classical Greek Tyranny	30	1	10-11	8.15
CL4444 Pleasure, Goodness and Happiness: Hellenistic Ethics	30	2	09-10	8.15, 19.12
CL4445 Women in Ancient Societies	30	1	09-10	8.15
CL4446 Picture this: Ecphrasis in Classical Poetry	30	2	10-11	8.15
CL4447 Greek and Roman Epic	30	2	10-11	8.16
CL4449 After Virgil: The <i>Aeneid</i> and its Reception	30	2	09-10	8.16
CL4452 Knowledge and the World in Hellenistic Philosophy	30	2	10-11	8.16
CL4453 Greek and Roman Science	30	1	10-11	8.16
CL4996 Dissertation (non-graduating)	60.0	either or both	all	8.17
CL4997 Dissertation (non-graduating)	30	either	all	8.17
CL4998 Dissertation (Long) in Classical Studies	60.0	either or both	all	8.17
CL4999 Dissertation (Short) in Ancient History, Ancient History & Archaeology, or Classical Studies	30	either	all	8.17
Computer Science (see also Information Technology)				
CS3051 Software Engineering	15	TBA	all	9.4
CS3099 Software Team Project	15	whole year	all	9.4
CS3102 Data Communications and Networks	15	TBA	all	9.5
CS3103 Graphs and Algorithms	15	TBA	all	9.5
CS3104 Operating Systems	15	TBA	all	9.5
CS3201 Machines and Computation	15	TBA	all	9.5
CS3202 Logic, Specification and Verification	15	TBA	all	9.6
CS3301 Component Technology	15	TBA	all	9.6
CS3302 Data Encoding	15	TBA	all	9.6
CS4051 Professional and Social Aspects of Computing	15	whole year	all	9.6
CS4098 Minor Software Project	15	whole year	all	9.7
CS4099 Major Software Project	30	whole year	all	9.7
CS4101 Artificial Intelligence	15	TBA	all	9.7
CS4102 Computer Graphics	15	TBA	all	9.7
CS4103 Distributed Systems	15	TBA	all	9.8
CS4104 Human Computer Interaction	15	TBA	all	9.8
CS4201 Programming Language Design and Implementation	15	TBA	all	9.8
CS4202 Computer Architecture	15	TBA	all	9.8
CS4203 Computer Security	15	TBA	all	9.9
CS4302 Multimedia	15	TBA	all	9.9
CS4402 Constraint Programming	15	TBA	all	9.9
CS4499 Computer Science (Special Subject)	15	either	all	9.9

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Divinity				
DI3601 Biblical Exegesis	30	1	all	10.5
DI3602 Theological explorations: texts, issues and applications	30	1	all	10.5
DI4501 Honours Dissertation in Divinity	30	either	all	10.5
DI4502 Honours Research in Divinity	30	either	all	10.5
DI4511 Church History Special Topic	30	either	all	10.6
DI4608 The Gospel of Matthew (English Texts)	30	2	09-10	10.6
DI4609 The Gospel of Matthew (Greek Texts)	30	2	09-10	10.6
DI4611 Social-Scientific Approaches to the New Testament	30	2	all	10.7
DI4615 New Testament Special Topic	30	either	all	10.7
DI4626 The Book of Revelation: English Texts only	30	1	all	10.7
DI4627 The Book of Revelation: English and Greek Texts	30	1	all	10.7
DI4707 The Wisdom Tradition in Ancient Israel A	30	1	n/a 09-10	10.8
DI4711 Old Testament Special Topic	30	either	all	10.8
DI4712 The Dead Sea Scrolls: English Texts	30	2	all	10.8
DI4713 The Dead Sea Scrolls: Hebrew Texts	30	2	all	10.9
DI4726 Hebrew Readings	30	1	all	10.9
DI4805 Practical Theology Special Topic	30	either	all	10.9
DI4816 The Theology of the Musical	30	2	all	10.9
DI4822 Citizenship: A Practical Theological Exploration	30	2	all	10.10
DI4828 Theological Anthropology	30	2	all	10.10
DI4930 Christian Symbolics: Creeds and Confessions of Faith	30	1	all	10.10
DI4932 Baylor University Module	15	2	all	10.10
Economics				
EC3201 Advanced Microeconomics	30	1	all	11.4
EC3202 Econometrics 1: The Classical Linear Regression Model	15	1	all	11.5
EC3203 Advanced Macroeconomics	30	2	all	11.5
EC4201 Economic Analysis	30	1	all	11.5
EC4202 Econometrics 2	15	1	all	11.5
EC4203 Contemporary Issues	30	2	all	11.6
EC4204 Financial Economic Theory	30	2	all	11.6
EC4205 Economic Policy	30	1	all	11.6
EC4300 Dissertation in Economics	30	whole year	all	11.7
EC4301 Group Dissertation	30	whole year	all	11.7
EC4302 Research Project	30	2	all	11.7
EC4303 Group Research Project	30	2	all	11.8
EC4501 Capital Investment Analysis	15	1	all	11.8
EC4502 Corporate Finance	15	2	all	11.8
EC4503 The Economics of Innovation	15	2	09-10	11.8
EC4504 Economics of Social Life	15	1	09-10	11.9
EC4505 Environmental Economics	15	1	10-11	11.9

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Economics (continued)				
EC4506 Experiments in Economics	15	1	09-10	11.9
EC4508 Industrial Organisation	15	1	10-11	11.9
EC4509 International Finance	15	2	10-11	11.10
EC4510 Issues in Economic Policy	15	1	all	11.10
EC4511 Labour Economics	15	1	09-10	11.10
EC4512 Law and Economics	15	2	10-11	11.10
EC4513 The Macroeconomics of European Integration	15	2	09-10	11.11
EC4514 Monetary Policy	15	1	10-11	11.11
EC4515 Public Finance	15	2	10-11	11.11
EC4517 Small Business Economics	15	2	10-11	11.11
EC4522 International Trade and Globalisation	15	2	all	11.12
EC5301 AQF Third year Project	30	whole year	10-11	11.12
EC5399 Dissertation in Applied Quantitative Finance	40	whole year	11-12	11.12
MT5812 Global Capital Markets - Structured Derivatives, Analytics and Applications	20	either	10-11	11.13
English				
EN3111 <i>Beowulf</i>	30	1	all	12.3
EN3112 Chaucer's <i>Canterbury Tales</i>	30	2	all	12.4
EN3113 Unreformed Scotland: Older Scots Literature to 1560	30	2	all	12.4
EN3141 Tragedy in the Age of Shakespeare	30	2	all	12.4
EN3142 Renaissance Literature: Texts and Contexts	30	1	all	12.4
EN3143 Shakespeare and the Beginnings of English Citizen Comedy	30	1	all	12.4
EN3161 The Development of the Novel to 1840	30	2	all	12.5
EN3162 Revolution and Romanticism: Literature, History and Society, 1789-1805	30	1	all	12.5
EN3163 The Younger Romantics: Poetry and Prose (1810-1830)	30	2	all	12.5
EN3164 Self and Society in the Victorian NOvel	30	2	all	12.5
EN3201 Literary Theory	30	1	n/a 09-10	12.6
EN3202 Literature and Ecology	30	1	all	12.6
EN3203 The Historical Novel	30	2	all	12.6
EN3204 Aspects of Modern Poetry	30	1	all	12.6
EN3206 Aspects of Modern Fiction	30	2	all	12.7
EN3207 Twentieth-Century British & Irish Drama	30	1	all	12.7
EN3208 Scottish Verse	30	1	all	12.7
EN3209 Scottish Fiction	30	2	all	12.7
EN3210 Twentieth-Century American Drama	30	1	all	12.7
EN3211 Culture and Society in Modern Scotland	30	2	all	12.8
EN4311 Old English Poetry	30	2	all	12.8
EN4312 Authorising English; Society, Gender and Religion in late Mediaeval English Literature	30	1	all	12.8
EN4313 Arthurian Legend and Middle English Romance	30	1	all	12.9

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English (continued)				
EN4341 Renaissance Sexualities: Rhetoric and the Body 1580-1660	30	1	n/a 09-10	12.9
EN4342 Restoration Theatre	30	2	n/a 08-09	12.9
EN4343 Literature and Law in Early Modern England	30	2	09-10	12.10
EN4344 Early English Romance Comedy: Shakespeare and his Contemporaries	30	1	all	12.10
EN4361 The Novels of Jane Austen in Context	30	1	09-10	12.10
EN4362 Mind, Body and Soul: Literature in the Enlightenment	30	1	n/a 09-10	12.11
EN4363 Romantic Writing and Women	30	2	n/a 09-10	12.11
EN4364 The Art of Victorian Poetry	30	1	all	12.11
EN4399 Dissertation in English	30	1	all	12.12
EN4402 Speeches and Speechwriting: History, Theory and Practice	30	2	all	12.12
EN4403 Medievalism	30	2	n/a 09-10	12.12
EN4404 Shakespeare and Film	30	1	09-10	12.12
EN4405 Contemporary Poetry in Great Britain and Ireland	30	1	all	12.13
EN4406 Contemporary Fiction	30	2	09-10	12.13
EN4407 Twentieth-Century Crime Fiction: Gender and Genre	30	2	n/a 09-10	12.13
EN4408 Science Fiction	30	1	09-10	12.13
EN4409 Modern American Drama	30	2	all	12.14
EN4410 Women, Writing and Representation in The Second World War	30	1	n/a 09-10	12.14
EN4411 D.H. Lawrence	30	1	all	12.14
EN4412 An Introduction to Irish Literature	30	2	n/a 09-10	12.14
EN4413 Reading the 1940s	30	1	all	12.15
EN4414 Thomas Hardy	30	2	all	12.15
EN4415 T.S. Eliot	30	2	all	12.15
EN4416 Virginia Woolf	30	1	all	12.15
EN4417 Creative Writing	30	1	all	12.16
EN4418 American Poetry since 1950	30	1	all	12.16
EN4419 American Fiction: Self and Nation, 1865-1939	30	2	all	12.16
EN4420 Creative Writing II	30	2	all	12.16
Film Studies				
FM3001 Contemporary Film Theory	30	1	09-10	19.4
FM4099 Film Studies Dissertation	30	2	09-10	19.5
FM4101 Time, National Identity and Cinema	30	either	n/a 09-10	19.5
FM4102 Film, Politics and Cultural Identities	30	either	n/a 09-10	19.5
FM4103 Film and Media	30	either	n/a 09-10	19.6
FM4104 Film and History	30	either	n/a 09-10	19.6
FM4105 Representing the Holocaust	30	1	n/a 09-10	19.6
FM4106 War and Cinema	30	either	n/a 09-10	19.7
FM4107 Cinema and Nation	30	1	n/a 09-10	19.7
Film Studies (continued)				

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Film Studies (continued)				
FM4108 Digital Cinema	30	2	n/a 09-10	19.7
FM4201 Japanese Cinema after WWII	30	either	n/a 09-10	19.8
FM4202 The Cinema in Eastern Europe	30	either	n/a 09-10	19.8
FM4203 American Independent Cinema	30	1	n/a 09-10	19.8
FM4204 Asian Cinemas	30	2	09-10	19.9
FM4205 Scotland and Cinema	30	2	09-10	19.9
FM4301 The International Film Industry: Cultural Production and Distribution	30	2	n/a 09-10	19.9
FM4302 Contemporary Period Drama	30	2	n/a 09-10	19.10
FM4303 Documentary Cinema	30	2	09-10	19.10
FM4304 Film and Sexual Identities	30	1	n/a 09-10	19.10
FM4305 The Divided Self :Cultural Identity in Auteur Cinema	30	1	09-10	19.11
FM4306 Women and Film	30	either	n/a 09-10	19.11
French				
FR3001 French Language I	15	1	all	18.15
FR3002 French Language II	15	2	all	18.16
FR3013 The Crusader Mentality and the Notion of the Epic	15	1	09-10 (tbc)	18.16
FR3021 An Introduction to the French Classical Period	15	1	10-11 (tbc)	18.16
FR3028 Plays, Players and Playwrights: the Theatre in France, 1620-1715 (1)	15	1	09-10	18.16
FR3047 Literature of Ideas from Descartes to Rousseau (1)	15	1	all	18.17
FR3053 History of the French Language	15	1	10-11	18.17
FR3054 Contemporary French Language and Society	15	2	09-10	18.17
FR3059 From One War to Another: French Politics, Culture and Society 1914-1945 (1)	15	2	09-10	18.17
FR3075 Antillean Literature from Cisaire to the Present	15	1	10-11	18.18
FR3076 Writing the Nineteenth Century (1): French literature, history and politics 1848 to 1871	15	2	09-10	18.18
FR3077 French Fiction from the 1990s into the 21st Century	15	1	09-10	18.18
FR3078 Writing the Self in Twentieth-Century French Literature	15	2	09-10	18.18
FR3079 From Text to Screen: Novels and their Film Adaptations	15	1	09-10	18.19
FR3080 Intellectuals in Modern France	15	1	09-10	18.19
FR3101 French Integrated Year Abroad	60	whole year	all	18.19
FR3103 Self-Access Residence Project in France	15	1	all	18.19
FR3805 Honours French I (Science)	15	1	all	18.20
FR3806 Honours French II (Science)	15	2	all	18.20
FR3809 French Dissertation (Science)	15	either	all	18.20
FR4078 Music in Nineteenth-Century French Poetry	15	1	09-10	18.20
FR4103 Translation Methodology (1)	15	1	all	18.21
FR4104 Translation Methodology (2)	15	2	all	18.21
FR4105 Communication Skills in French (1)	15	1	all	18.21

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French (continued)				
FR4106 Communication Skills in French (2)	15	2	all	18.21
FR4114 The Chivalric Romance and the World of Arthur	15	2	10-11	18.21
French (continued)				
FR4122 Literature of the French Enlightenment	15	2	all	18.22
FR4124 Twentieth-century French Literature	15	2	10-11	18.22
FR4129 Plays, Players & Playwrights: the Theatre in France, 1620-1715 (2)	15	2	09-10	18.22
FR4149 Aspects of Gender in Seventeenth-Century Theatre	15	either	09-10	18.22
FR4160 From One War to Another: French Politics, Culture and Society 1914-1945	15	2	10-11	18.23
FR4180 Modern French Thought	15	2	10-11	18.23
FR4181 Contemporary French Crime Fiction	15	1	09-10	18.23
FR4198 Dissertation on a French Topic	15	either	all	18.23
FR4199 Long Dissertation on a French Topic	30	whole year	all	18.24
FR4807 Honours French III (Science)	15	1	all	18.24
FR4808 Honours French IV (Science)	15	2	all	18.24
FR4809 Science French Dissertation	15	either	all	18.24
FR5810 Science Project Report in French	30	whole year	all	18.25
Geography (see also Geography & Geosciences)				
GE3001 Cartographic Methods in Geography	10	1	all	13.7
GE3002 Field Class in Geography	10	2	all	13.7
GE3004 Ideas and Methods in Geography I	10	2	all	13.7
GE3005 Data Analysis in Geography	10	1	all	13.8
GE3006 Survey: Physical	10	2	all	13.8
GE3007 Survey: Social	10	2	all	13.8
GE3008 Qualitative Methods in Geography	10	1	all	13.8
GE3031 Geographies of Labour Market Behaviour	15	2	10-11	13.9
GE3032 Urban Cultural Geography	20	1	09-10	13.9
GE3037 Population Studies I	15	1	10-11	13.9
GE3051 Environmental Management in Scotland	15	1	10-11	13.10
GE3060 Geographies of Imperialism and Colonialism I	15	1	10-11	13.10
GE3073 Geography of Health	15	1	09-10	13.10
GE3075 Environments and Human Behaviour	15	2	09-10	13.10
GE4014 Ideas and Methods in Geography II	10	2	all	13.11
GE4018 Dissertation in Geography	30	1(or 2)	all	13.11
GE4019 Review Essay in Geography	20	2	all	13.11
GE4038 Population Studies II	15	2	10-11	13.12
GE4061 Geographies of Imperialism and Colonialism II	15	2	10-11	13.12
GE4072 HIV/AIDS in Africa	15	2	09-10	13.12

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Geography & Geosciences (see also Geography, Geoscience)				
GG3011 Introduction to Geographical Information Systems	10	1	all	13.13
GG3036 Periglacial Geomorphology	15	1	09-10	13.13
GG3041 Quaternary Geomorphology of Scotland I	15	1	09-10	13.13
GG3052 Coastal Environments and Sea Level Change	15	2	all	13.14
GG3056 Glaciers and Glacial Processes I	15	1	10-11	13.14
GG3067 Oceans and Climate	15	2	09-10	13.14
GG3069 Climate and Weather Systems	15	1	09-10	13.14
GG3071 Tropical Environments and Environmental Issues	15	1	09-10	13.14
GG3082 Sedimentary Environments and Depositional Frameworks	15	2	all	13.15
GG3089 Environmental Geoscience	15	1	all	13.15
GG3090 Palaeontology, Palaeoecology & Palaeoclimatology	15	2	all	13.15
GG3093 Political Ecology: Nature, Power and Development	15	1	09-10 only	13.15
GG3094 Geographies of Immigration and Refuge	15	1	09-10 only	13.16
GG3095 Rivers, Floodplains and Management	15	1	10-11	13.16
GG3096 Earth System Science: Terrestrial Ecosystems and Environmental Change	15	2	10-11	13.16
GG3097 The Economic Geography of Homes and Neighbourhoods	15	2	10-11	13.17
GG3102 Analytical Methods for Physical Geography	15	1	all	13.17
GG3110 Applied Environmental Geoscience Field Methods	15	2	all	13.17
GG4042 Quaternary Geomorphology of Scotland II	15	2	09-10	13.17
GG4057 Glaciers and Glacial Processes II	15	2	10-11	13.18
GG4058 Advanced Glaciology	15	1	09-10	13.18
GG4090 Late Holocene Palaeoclimatology - Studying Climate Change for the last 2000 years	15	2	10-11	13.18
GG4110 Environmental Geoscience Mapping & Analysis	15	1	all	13.18
GG4120 Environmental Geoscience Case Studies & Presentations	15	1	all	13.19
GG4130 Research Dissertation in Physical Geography and Geoscience	45	whole year	all	13.19
Geoscience (Geology)				
GS3002 Data Analysis and Numerical Methods in Geoscience	10	1	all	13.19
GS3004 Field Mapping and Map Interpretation	30	whole year	all	13.19
GS3012 Analytical Methods In Geoscience	10	1	all	13.20
GS3081 Earth Internal Processes	15	1	all	13.20
GS3090 Introduction to Geographical Information Systems (GIS) in Geosciences	10	1	all	13.20
GS3099 Field Methods in Geosciences	30	2	all	13.20
GS4005 Honours Field Excursion	10	summer	all	13.21
GS4006 Research Review and Presentations	10	1	all	13.21
GS4007 Map Interpretation and Remote Sensing	10	1	all	13.21
GS4008 Research Dissertation	30	whole year	all	13.21
GS4009 Joint Honours Research Project	15	whole year	all	13.22
GS4010 Joint Honours Research Review	5.0	1 or 2	all	13.22
GS4083 Granites and Basalts	15	2	10-11	13.22

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Geoscience (Geology) (continued)				
GS4084 Composition of the Solid Earth	15	2	09-10	13.22
GS4085 Geodynamics	15	2	all	13.23
GS4086 Tectonics and Structural Geology	15	1	all	13.23
GS4088 Petroleum Exploration and Geophysics	15	1	all	13.23
German				
GM3005 German Language I	15	1	all	18.25
GM3006 German Language II	15	2	all	18.25
GM3070 Heroism in German Literature	15	1	09-10	18.25
GM3071 Recent German Literature	15	1	10-11	18.26
GM3072 Gender and sexuality in pre-modern German writing	15	1	10-11	18.26
GM3080 Grammatical Rules and Lexical Exceptions in Modern German	15	1	10-11	18.26
GM3081 Words and their Functions in modern German	15	1	09-10	18.26
GM3101 German Integrated Year Abroad	60	whole year	all	18.27
GM3103 Residential Project in German Speaking Country	15	1	all	18.27
GM4007 Translation Methodology (German/English)	15	2	10-11	18.27
GM4047 German Cinema	15	2	09-10	18.27
GM4069 German History 1949 to the Present	15	2	09-10	18.28
GM4081 Modern Theatre	15	2	10-11	18.28
GM4083 Terrorism in German Cinema	15	2	10-11	18.28
GM4086 Reason and Revolt: German Culture in the Enlightenment	15	2	09-10	18.28
GM4087 Gods, Greece and the German Imagination	15	2	10-11	18.29
GM4098 Dissertation on a German Topic	15	either	all	18.29
GM4099 Long Dissertation on a German Topic	30	whole year	all	18.29
GM4105 German Language III	15	1	all	18.29
GM4106 German Language IV	15	2	all	18.30
GM4801 German Dissertation (Science)	15	either	all	18.30
Greek				
GK3021 Greek for Honours Classics 1: Special Option	30	1	all	8.18
GK3022 Greek for Honours Classics 2: Special Option	30	2	all	8.18
GK4100 Greek Prose Competition	30	1	09-10	8.18
GK4102 Greek Tragedy	30	1	09-10	8.19
GK4103 Greek Comedy	30	1	n/a 09-10	8.19
GK4105 Greek Rhetoric and its Representation	30	2	10-11	8.19
GK4109 Greek Literature in the Roman Empire	30	2	09-10	8.19
GK4110 Imagining the Symposium	30	2	10-11	8.20
GK4113 Greeks and Others: Ethnography and Identity in ancient Greek Literature	30	1	10-11	8.20
GK4115 Epiphanic Gods: Text and Context in the Homeric Hymns	30	1	all	8.20
GK4998 Dissertation in Greek (Long)	60	either or both	all	8.20
GK4999 Dissertation in Greek	30	either	all	8.21

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History				
HI4998 Honours Project in History	30	either	all	14.14
HI4999 Honours Dissertation in History	30	whole year	all	14.14
Interdisciplinary Modules				
ID4001 Communication and Teaching in Science	15	1	all	5.30, 7.23, 23.1
ID4441 Combined Chemistry and Geoscience Research Project	40	both	all	13.24, 23.2
ID4801 Human Rights, Poverty and Security	30	either	all	15.2, 19.11
International Relations				
IR3004 International Political Economy	30	2	09-10	15.3
IR3006 International Regimes and Organisations	30	2	09-10	15.3
IR3008 International Terrorism	30	1	09-10	15.3
IR3013 Modern Ideologies	30	1	09-10	15.3
IR3015 Religion, Politics and Democracy	30	2	09-10	15.4
IR3021 Case Studies in Conflict Analysis	30	2	09-10	15.4
IR3023 US Foreign Policy: The Dilemmas of Empire	30	1	09-10	15.4
IR3024 The Politics of Africa	30	2	09-10	15.4
IR3025 International Security	30	1	n/a 09-10	15.5
IR3026 Diplomacy and Conflict Intervention	30	1	09-10	15.5
IR3027 American New World Orders in the Twentieth Century	30	1	09-10	15.5
IR3028 The Politics of China	30	2	09-10	15.5
IR3029 The Logic of Irregular Warfare	30	2	09-10	15.6
IR3030 Human Rights in Theory and Practice	30	1	09-10	15.6
IR3031 Globalisation and the War on Terrorism	30	1	09-10	15.6
IR3032 Globalisation and its Disjunctions	30	1	09-10	15.7
IR3033 Post-Conflict Transition in Sub-Saharan Africa	30	1	09-10	15.7
IR3034 The Political Theory of War and Peace	30	2	09-10	15.7
IR3035 Peace Processes and Violence	30	2	09-10	15.7
IR3036 Public International Law & International Legal Theory	30	1	09-10	15.8
IR3104 The International Relations of Post-communist Central and Eastern Europe	30	1	09-10	15.8
IR3111 Asian Security	30	2	09-10	15.8
IR3113 Gender and Generation	30	1	all	15.8
IR4099 Honours Dissertation in International Relations	30	1	all	15.9
IR4501 International Politics of Nuclear Weapons	30	1	09-10	15.9
IR4502 Conflict Management, Settlement and Resolution	30	1	09-10	15.9
IR4504 Language of Politics	30	2	09-10	15.9
IR4507 International Relations of the Middle East	30	1	09-10	15.10
IR4509 World Order in the History of Political Thought	30	1	09-10	15.10

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International Relations (continued)				
IR4510 Central Asia in Global Politics	30	2	09-10	15.10
IR4514 Global Public Policy	30	1	09-10	15.10
IR4516 The International Relations of Sub-Saharan Africa	30	1	09-10	15.11
IR4518 Ethics and the Use of Force	30	2	09-10	15.11
IR4520 Political Islam and International Relations	30	2	09-10	15.11
IR4521 Representations of International Relations	30	2	09-10	15.12
IR4522 Critical Approaches to International Security	30	2	09-10	15.12
IR4523 The Aftermath of Wars, Liberal Dilemmas	30	1	09-10	15.12
IR4526 Terrorism, Radicalism and Extremism	30	2	09-10	15.12
IR4527 International Relations of the European Union	30	2	09-10	15.13
IR4528 Foreign Policy of Modern China	30	1	09-10	15.13
IR4530 Genocide	30	2	09-10	15.13
IR4531 The Return of Great Power Politics	30	2	09-10	15.13
IR4532 The Cultural Politics of Human Rights	30	2	09-10	15.14
IR4533 The Arab-Israeli Conflict	30	2	09-10	15.14
IR4534 Terrorist Finance	30	1	09-10	15.14
Italian				
IT3001 Italian Language I	15	1	all	18.30
IT3002 Italian Language II	15	2	all	18.30
IT3009 History of the Italian Language	15	1	09-10	18.31
IT3012 Fourteenth-Century Literature	15	1	all	18.31
IT3014 The Language and Literature of Renaissance Italy	15	1	10-11	18.31
IT3019 Contemporary Italian Narrative and Poetry	15	1	all	18.31
IT3022 Nineteenth-Century Literature	15	1	10-11	18.32
IT3035 Italian Detective Fiction	15	2	all	18.32
IT3037 Contemporary Italian Women Writers	15	2	all	18.32
IT3101 Italian Integrated Year Abroad	60	whole year	all	18.32
IT3103 Self-access Residence in Italy	15	1	all	18.33
IT4003 Communication Skills I	15	1	all	18.33
IT4004 Communication Skills II	15	2	all	18.33
IT4005 Translation Methodology	15	1	all	18.33
IT4012 Dante Alighieri	15	2	all	18.34
IT4013 Modern Italy through Cinema	15	2	all	18.34
IT4014 Female Literary Representations in the Italian Renaissance	15	2	10-11	18.34
IT4015 Literary Transvestism in Italian Literature	15	1	10-11	18.34
IT4016 20th Century Italian Canonical and Anti-Canonical Poetry	15	2	09-10	18.35
IT4024 Authority and subversion in Renaissance Italy	15	2	09-10	18.35
IT4098 Dissertation on an Italian Topic	15	either	all	18.35
IT4099 Long Dissertation on an Italian Topic	30	whole year	all	18.35

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Latin				
LT3017 Latin for Honours Classics 1	30	1	all	8.21
LT3018 Latin for Honours Classics 2	30	2	all	8.21
LT4201 Roman Epic	30	1	10-11	8.21
LT4208 Late Latin	30	2	09-10	8.22
LT4209 Latin Historical Writing	30	2	10-11	8.22
LT4210 Latin Didactic Poetry	30	1	09-10	8.22
LT4211 Latin Letters	30	2	09-10	8.22
LT4213 Roman Satire	30	1	09-10	8.23
LT4214 Latin Philosophical Writing	30	2	10-11	8.23
LT4215 Senecan Tragedy	30	1	10-11	8.23
LT4999 Latin Dissertation	30	either	all	8.23
Linguistics				
LI3001 General Linguistics I: The Method of Lexical Exceptions	15	1	all	18.36
LI3002 General Linguistics II: Language Variation and Change	15	2	all	18.36
LI4001 General Linguistics III: Semantics and Discourse	15	1	all	18.36
LI4002 General Linguistics IV: Languages in Contact	15	2	all	18.36
LI4098 Dissertation on a Linguistics Topic	15	either	all	18.37
Management				
MN3101 Corporate Finance and Control	20	2	all	16.3
MN3102 Organisation Studies	20	1	all	16.4
MN3126 International Business	20	2	09-10	16.4
MN3201 Research Methods: 1	20	1	09-10	16.4
MN3202 Research Methods: 2	20	2	09-10	16.5
MN4203 Dynamic Strategic Management	20	2	09-10	16.5
MN4204 Change, Complexity and Innovation	20	2	09-10	16.5
MN4209 Management Project	20	1 or 2	all	16.5
MN4211 International Marketing	20	2	09-10	16.6
MN4213 Human Resource Management	20	2	09-10	16.6
MN4214 Management of Change	20	2	09-10	16.6
MN4223 International Banking	20	2	09-10	16.6
MN4224 Consuming Culture	20	1	09-10	16.7
MN4225 Scenario Thinking	20	1	09-10	16.7
MN4227 Corporate Social Responsibility, Accountability and Reporting	20	1	09-10	16.7
MN4235 Public Sector Management	20	2	n/a 09-10	16.8
MN4238 Sustainable Development and Management	20	2	09-10	16.8
MN4239 Advertising: A Social History (ASH)	20	1	09-10	16.8
MN4262 Social Theory & Work Organisation	20	2	09-10	16.9
MN4263 Entrepreneurship and Small Business Development	20	1	09-10	16.9

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Management (continued)				
MN4266 Non-Governmental Organisations (NGOs): contexts, contributions and challenges	20	1	09-10	16.9
MN4267 Creative Industries	20	2	09-10	16.9
Mathematics				
MT3501 Linear Mathematics	15	1	all	17.5
MT3503 Complex Analysis	15	1	all	17.6
MT3504 Differential Equations	15	1	all	17.6
MT3600 Fundamentals of Pure Mathematics	15	1	all	17.6
MT3601 Fundamentals of Applied Mathematics	15	1	all	17.6
MT3606 Statistical Methods	15	1	all	17.7
MT3607 Computing in Statistics	15	2	all	17.7
MT3706 Markov Chains and Processes	15	1	09-10	17.7
MT3802 Numerical Analysis	15	1	all	17.7
MT3832 Mathematical Programming	15	2	09-10	17.8
MT3833 Utilities, Decisions and Inventories	15	2	10-11	17.8
MT4003 Groups	15	2	all	17.8
MT4004 Real and Abstract Analysis	15	2	all	17.9
MT4005 Linear and Nonlinear Waves	15	1	all	17.9
MT4111 Symbolic Computation	15	2	10-11	17.9
MT4112 Computing in Mathematics	15	1	09-10	17.9
MT4501 Topics in the History of Mathematics	15	1	all	17.10
MT4507 Classical Mechanics	15	2	10-11	17.10
MT4508 Dynamical Systems	15	2	09-10	17.10
MT4509 Fluid Dynamics	15	2	all	17.10
MT4510 Solar Theory	15	2	all	17.11
MT4511 Asymptotic Methods	15	1	10-11	17.11
MT4513 Fractal Geometry	15	2	09-10	17.11
MT4514 Graph Theory	15	2	10-11	17.11
MT4515 Functional Analysis	15	2	10-11	17.12
MT4516 Finite Mathematics	15	1	09-10	17.12
MT4517 Rings and Fields	15	1	10-11	17.12
MT4519 Number Theory	15	2	09-10	17.12
MT4521 Geometry and Topology	15	2	09-10	17.13
MT4527 Forecasting	15	1	10-11	17.13
MT4530 Population Genetics	15	1	09-10	17.13
MT4531 Bayesian Inference	15	2	10-11	17.13
MT4537 Spatial Processes	15	2	09-10	17.14
MT4551 Financial Mathematics	15	2	all	17.14
MT4599 Project in Mathematics/Statistics	15	whole year	all	17.14
MT4606 Statistical Inference	15	2	09-10	17.14

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Mathematics (continued)				
MT4607 Generalized Linear Models and Data Analysis	15	1	10-11	17.15
MT4608 Sampling Theory	15	1	10-11	17.15
MT4609 Multivariate Analysis	15	2	10-11	17.15
MT4613 Statistical Research in Practice	15	whole year	all	17.16
MT5611 Advanced Symbolic Computation	20	2	10-11	17.16
MT5613 Advanced Topics in the History of Mathematics	20	1	all	17.16
MT5701 Advanced Statistical Inference	20	2	09-10	17.17
MT5751 Estimating Animal Abundance	10	2 (2 wks)	all	17.17
MT5752 Modelling Ecological Dynamics	20	2 (4 wks)	all	17.17
MT5753 Statistical Modelling	20	1 (4 wks)	all	17.17
MT5757 Advanced Data Analysis	20	1	all	17.18
MT5758 Applied Multivariate Analysis	15	2	all	17.18
MT5759 Knowledge Discovery and Data Mining	15	2	all	17.18
MT5802 Advanced Analytical Techniques	20	2	all	17.18
MT5806 Advanced Computational Techniques	20	2	all	17.19
MT5809 Advanced Fluid Dynamics	20	1	all	17.19
MT5810 Advanced Solar Theory	20	1	all	17.19
MT5812 Global Capital Markets- Structured Derivatives, Analytics and Applications	20	either	all	17.19
MT5823 Semigroups	20	1	09-10	17.20
MT5824 Topics in Groups	20	1	all	17.20
MT5825 Measure and Ergodic Theory	20	1	all	17.20
MT5826 Finite Fields	20	2	09-10	17.20
MT5827 Lie Algebra	20	2	10-11	17.21
MT5828 Hyperbolic Geometry	20	2	10-11	17.21
MT5829 Group Rings	20	2	all	17.21
MT5831 Advanced Bayesian Inference	20	2	10-11	17.21
MT5990 Independent Study Module	20	either	all	17.22
MT5991 Professional Skills for Mathematical Scientists	30	whole year	all	17.22
MT5999 Advanced Project in Mathematics/Statistics	40	whole year	all	17.22
Mediaeval History				
ME3012 heroic History: The Age of Beowulf	30	2	09-10	14.15
ME3014 The End of the Middle Ages? Scotland and England in the Fifteenth Century	30	2	n/a 09-10	14.15
ME3015 Heralds, Heraldry and History: Late Mediaeval Heraldic Studies	30	1	n/a 09-10	14.15
ME3016 Ireland in the Later Middle Ages: Nations and Conflicts	30	1	09-10	14.16
ME3101 Britons and Saxons, c. 570 - 822	30	1	10-11	14.16
ME3102 Gildas and the Ruin of Britain, c. 467 - 570	30	2	09-10	14.16
ME3201 Christians, Muslims & Jews in Mediaeval Spain	30	1	n/a 09-10	14.16

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Mediaeval History (continued)				
ME3202 Byzantium and the West 800-1118	30	1	n/a 09-10	14.17
ME3203 The Crusades	30	1	n/a 09-10	14.17
ME3204 The Princess Historian: Anna Comnena	30	1	n/a 09-10	14.17
ME3206 Heretics and Social Outcasts in Western Europe	30	2	n/a 09-10	14.17
ME3214 Italian City States: from Communes to Signorie c. 1000 - c.1350	30	1	n/a 09-10	14.18
ME3216 Mediaeval Rome, c.590 - c.1300	30	2	n/a 09-10	14.18
ME3218 Imperial and Christian Constantinople	30	1	n/a 09-10	14.18
ME3221 Culture and Society in the Icelandic Commonwealth c. 870 - 1262	30	2	n/a 09-10	14.18
ME3222 Inca Civilisation and its Destruction	30	2	09-10	14.19
ME3223 Politics and Power in Carolingian and Ottonian Europe, c.800-100	30	2	09-10	14.19
ME3224 Legend and History in Sub-Roman Britain	30	2	n/a 09-10	14.19
ME3228 The Near East in the Age of Justinian and Muhammad, c. 527-700	30	1	09-10	14.20
ME3229 Eastern Approaches: Early Mediaeval Armeniac. 500 - 750	30	1	09-10	14.20
ME3230 The Mongols and the West	30	1	09-10	14.20
ME3231 Mediaeval Apocalyptic Traditions 400-1200	30	1	09-10	14.20
ME3232 Queens and Queenship in Early Mediaeval Europe	30	2	09-10	14.21
ME3233 The Gothic and Frankish Kingdoms 400 - 700	30	2	09-10	14.21
ME3407 Courtroom Dramas: Literature, Law and Lordship	30	2	09-10	14.21
ME3408 The Black Death and the Peasants' Revolt in England	30	1	n/a 09-10	14.21
ME3411 The Mediaeval Castle	30	2	09-10	14.22
ME3414 Ideas on Nature and Animals in the Middle Ages	30	2	n/a 09-10	14.22
ME3417 Middle Ages and the Movies	30	1	09-10	14.22
ME3418 The Vikings: Invasion, Settlement and Conversion c. 750-1200	30	1	09-10	14.22
ME3423 Mediaeval Warfare: Theory, Practice and Politics in the Late Middle Ages	30	1	n/a 09-10	14.23
ME3424 The Ottoman Empire from Mediaeval Anatolia to Süleyman the Magnificent	30	2	09-10	14.23
ME4701 Henry I: Perceptions and Practice of Kingship in Anglo-Norman England	60	whole year	09-10	14.23
ME4707 Law and Society in England c. 870 - 1220	60	whole year	n/a 09-10	14.23
ME4709 Past and Present in Mediaeval Wales	60	whole year	n/a 09-10	14.24
ME4801 Art and Orthodoxy in Byzantium	60	whole year	n/a 09-10	14.24
ME4803 The Fourth Crusade	60	whole year	09-10	14.24
ME4806 The Age of Charlemagne c.750 - 830	60	whole year	09-10	14.25
ME4807 The Early Mendicants: Francis, Clare and Dominic, c.1180-1270	60	whole year	n/a 09-10	14.25
ME4812 From Leo VI to Basil II: Byzantium in the Tenth Century	60	whole year	n/a 09-10	14.25
ME4813 Kings and Holy Men in the Merovingian World	60	whole year	09-10	14.26
ME4814 Iran from the Sasanids to the Samanids (224-1003)	60	whole year	09-10	14.26

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Mediaeval History (continued)				
ME4901 The Cult of Saints	60	whole year	09-10	14.26
ME4904 England and France at War in the Fourteenth Century	60	whole year	n/a 09-10	14.26
ME4905 Lords of the Landscape: Shepherds and Sheep in Mediaeval England and Castile	60	whole year	n/a 09-10	14.26
ME4998 Honours Dissertation in Mediaeval Archaeology	30	whole year	all	14.26
Modern History				
MO3005 The Early Reformation in Europe, 1517-1555	30	2	all	14.27
MO3011 Society and Religious Change in Sixteenth-Century France	30	1	n/a 09-10	14.28
MO3015 The Mental World of the Individual and the Collective in England, 1550-1800	30	2	all	14.28
MO3019 The Life of the Mind: Key Texts in European Thought, 1512 - 1697	30	1	all	14.28
MO3020 Literacy and Society in Europe, 1500 - 1800	30	2	n/a 09-10	14.28
MO3023 Disease and the Environment c.1500 – 2000	30	2	all	14.29
MO3025 Empire and Nation: The Development of Colonial British America, 1607-1770	30	1	all	14.29
MO3026 Art and Piety in Western Europe, 1400-1750	30	2	all	14.29
MO3027 Women and Men in Europe, 1500-1800	30	2	n/a 09-10	14.29
MO3033 Europeans in Asia in the Early Modern Period	30	1	n/a 09-10	14.30
MO3034 Picturing Politics and Society in Early Modern England: Images of Power and Corruption from Van Dyck to Gilray c 1630-1800	30	2	n/a 09-10	14.30
MO3035 The Decline of Spain 1556 - 1700	30	2	n/a 09-10	14.30
MO3036 The Italian Renaissance	30	2	09-10	14.30
MO3037 Renaissance Information Technology and Print Culture	30	2	09-10	14.31
MO3110 African Americans in Slavery and Freedom, 1620 - 1865	30	2	n/a 09-10	14.31
MO3111 The Restoration Worlds of Samuel Pepys	30	2	all	14.31
MO3214 The Decline and Fall of the Old French Regime, 1715-1789	30	1	all	14.31
MO3215 Persia in the 18 th Century – 1722-1834 (The Age of the Warlords)	30	2	all	14.32
MO3216 Science and Nation-Building in Europe, 1750 - 1900	30	2	all	14.32
MO3217 Travel Cultures in Europe in the 18th and 19th Centuries	30	1	all	14.32
MO3218 The American Revolution	30	2	all	14.32
MO3302 Imperial Russia, 1815-1917	30	1	all	14.33
MO3308 Approaches to Historical Theory	30	2	n/a 09-10	14.33
MO3309 The Evolution of British Democracy, 1832-1918	30	2	n/a 09-10	14.33
MO3314 Environmental History: Nature and the Western World, 1800-2000	30	2	all	14.33
MO3317 A 'Struggle for Mastery in Europe'? German Foreign Policy from Bismarck to Hitler, 1871 - 1939	30	1	n/a 09-10	14.34
MO3318 Revolutions, Nationalism and Reaction: 1848-1849 in the German Lands	30	2	n/a 09-10	14.34
MO3319 'Power without Responsibility'? The Press and British Politics, 1850-1939	30	1	all	14.34
MO3320 Imperialism and Nationalism: the British Empire in India 1857-1947	30	2	all	14.35

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Modern History (continued)				
MO3321 Russia - Real and Imagined: Ideas, Identity, and Culture (1800-2000)	30	2	all	14.35
MO3322 French Algeria, 1830-1962	30	1	all	14.35
MO3326 Jihad, Community and Identity: Islamic political thought past and present	30	1	all	14.35
MO3327 Modern Iran since 1834: reform and revolution	30	2	all	14.36
MO3328 Making Italians: Region, nation and empire in Italy from Unification to Fascism	30	1	all	14.36
MO3402 The United States since 1896	30	2	n/a 09-10	14.37
MO3406 The Soviet Union	30	1	all	14.37
MO3410 The Third Reich: History and Historiography	30	1	all	14.37
MO3419 The French 'civil wars' of the 20 th Century	30	2	all	14.37
MO3421 Making People's Music: Folk Music Revival and Society in the United States, 1900-1970	30	1	all	14.38
MO3422 The United States in Depression and War (1929-1945)	30	2	all	14.38
MO3423 Dictatorship in Practice: Everyday Life in Fascist Italy, Nazi Germany, Franco's Spain and the Stalinist Soviet Union	30	2	all	14.38
MO3502 War and Welfare: Britain 1939-1951	30	1	all	14.38
MO3504 Central and Eastern Europe since 1945	30	2	all	14.39
MO3507 The Kennedy Years	30	1	n/a 09-10	14.39
MO3508 America and Vietnam	30	2	n/a 09-10	14.39
MO3513 Heavenly Decade: The 1960s	30	1	n/a 09-10	14.39
MO3514 The Life and Times of the Atom Bomb	30	1	all	14.40
MO3516 Popular Culture, Nation and Society: Leisure in Britain 1880-1960	30	2	all	14.40
MO3518 Intellectuals in Interwar Europe, 1918-1939	30	1	n/a 09-10	14.40
MO3519 Dictators in 20 th -century Europe	30	1	n/a 09-10	14.40
MO3520 Political Culture in Postwar European Democracies: History, Memory & Identity, 1945-2005	30	2	all	14.41
MO3711 Radical Politics in England	30	2	n/a 09-10	14.41
MO3712 An "Army with a Country"? The Military and Militarism in Prusso-German History, 1640-1945	30	1	n/a 09-10	14.41
MO3713 The American Metropolis	30	1	n/a 09-10	14.42
MO4904 Madness and its Social Milieu in Britain, 1560-1820	60	whole year	all	14.42
MO4912 French Absolution: Richelieu to Louis XIV	60	whole year	all	14.42
MO4913 Saints and Martyrs in Early Modern Europe	60	whole year	all	14.43
MO4914 The German Enlightenment in European Perspectives	60	whole year	all	14.43
MO4915 Rebellion, Regicide and Revolution: The English Civil Wars and Interregnum	60	whole year	all	14.43
MO4921 Britain and its Empire in the Age of the Consumer Revolution, 1660 - 1820	60	whole year	all	14.44
MO4932 Russians Making History, 1755 - 2000	60	whole year	n/a 09-10	14.44
MO4936 Bismark: Biography - Politics - Mythology	60	whole year	all	14.44
MO4937 Charles Darwin and the Politics of Progress	60	whole year	all	14.45
MO4938 Progress and Reform: The United States, 1880-1930	60	whole year	all	14.45
MO4939 Civil War and Dictatorship in Spain, 1936-1959	60	whole year	all	14.45

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Modern History (continued)				
MO4940 Britain in the Era of the Great War	60	whole year	all	14.45
MO4944 The Diplomatic Prelude to the Second World War	60	whole year	all	14.46
MO4947 History and Historians in 20th Century Britain	60	whole year	n/a 09-10	14.46
MO4948 France and the World, 1940-1995	60	whole year	n/a 09-10	14.46
MO4949 Debating Indian Futures: From Empire to Republic, 1917-1950	60.0	whole year	all	14.46
MO4952 The Kennedy Years	60.0	whole year	n/a 09-10	14.47
MO4954 Martin Luther King and the Civil Rights Movement in America	60.0	whole year	n/a 09-10	14.47
MO4957 Britain and Iran in the Modern Era	60.0	whole year	n/a 09-10	14.47
MO4959 British Cinema History 1920-1960	60.0	whole year	all	14.47
MO4961 Mapping Modern Europe: Spatial Perspectives on the 19 th and 20 th Centuries	60.0	whole year	n/a 09-10	14.48
MO4962 France and Its Empire in the 20th Century: Colonialism, Anticolonialism, Post-colonialism	60.0	whole year	all	14.48
Modern Languages				
ML3009 Romance Philology I	15	1	all	18.37
ML3105 Integrated Year Abroad: Semester 1	30	1	all	18.37
ML3106 Integrated Year Abroad: Semester 2	30	2	all	18.38
ML4020 Romance Philology II	15	2	all	18.38
Philosophy				
PY3701 Language and Reality	30	1	all	19.12
PY3702 Value and Normativity	30	2	all	19.12
PY3999 Special Topic in Philosophy	15	2	all	19.12
PY4604 Political Philosophy	30	1	all	19.13
PY4606 Contemporary Epistemology	30	1	all	19.13
PY4607 Continental European Philosophy from Descartes to Leibniz	30	1	n/a 09-10	19.13
PY4612 Advanced Logic	30	2	all	19.14
PY4614 Philosophy of Mind	30	2	all	19.14
PY4615 Metaphysics	30	1	all	19.14
PY4633 Philosophy of Mathematics	30	1	all	19.14
PY4635 Contemporary Moral Theory	30	2	all	19.15
PY4638 Philosophy of Religion	30	2	all	19.15
PY4639 Philosophy of Creativity	30	1	all	19.15
PY4698 Dissertation (Whole Year)	30	whole year	all	19.15
PY4802 Dissertation in Philosophy	30	either	all	19.16

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Physics				
PH3002 Solid State Physics	15	2	all	20.11
PH3007 Electromagnetism	15	2	all	20.11
PH3011 Information and Measurement	15	2	n/a 09-10	20.11
PH3012 Thermal and Statistical Physics	15	1	all	20.11
PH3014 Transferable Skills for Physicists	15	whole year	all	20.12
PH3061 Quantum Mechanics 1	10	1	all	20.12
PH3062 Quantum Mechanics 2	10	2	all	20.12
PH3066 Mathematics for Physicists	10	1	all	20.12
PH3073 Lagrangian and Hamiltonian Dynamics	10	2	all	20.13
PH3074 Electronics	15	1	all	20.13
PH3075 Applied Vector Calculus	5	1	all	20.13
PH3101 Physics Laboratory 1	15	2	all	20.13
PH4021 Physics of Atoms	15	1	all	20.14
PH4022 Nuclear and Particle Physics	10	2	all	20.14
PH4025 Physics of Electronic Devices	15	2	all	20.14
PH4026 Radio and Coherent Techniques	15	2	09-10	20.15
PH4027 Optoelectronics and Nonlinear Optics 1	15	1	all	20.15
PH4028 Quantum Mechanics 3	10	2	all	20.15
PH4030 Computational Physics	10	1 & 2 (twice)	all	20.15
PH4031 Fluids	15	1	all	20.16
PH4032 Relativity and Fields	15	1	all	20.16
PH4034 Laser Physics 1	15	1	all	20.16
PH4035 Principles of Optics	15	2	all	20.16
PH4036 Physics of Music	15	1	all	20.17
PH4105 Physics Laboratory 2	15	1	all	20.17
PH4111 Project in Physics 1	30	whole year	all	20.17
PH4112 Physics Project	120	whole year	all	20.17
PH4113 Physics Project	60	either	all	20.18
PH5002 Foundations of Quantum Mechanics	15	1	all	20.18
PH5003 Group Theory	15	1	all	20.18
PH5004 Quantum Field Theory	15	2	all	20.18
PH5005 Laser Physics 2	15	1	all	20.19
PH5011 General Relativity	15	1	all	20.19
PH5013 Superconductivity	15	1	n/a 09-10	20.19
PH5014 The Interacting Electron Problem in Solids	15	1	all	20.20
PH5015 Experimental Quantum Physics at the Limit	15	1	n/a 09-10	20.20
PH5016 Biophotonics	15	1	all	20.20
PH5018 Laser Physics 2 - Extended	20	1	all	20.21
PH5020 Photonics Applications - Extended	20	1	all	20.21
PH5101 Project in Physics 2	60	whole year	all	20.21
PH5102 Project in Theoretical Physics	45	whole year	all	20.21
PH5183 Photonics Applications	15	1	all	20.22

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Psychology				
PS3021 Research Design and Analysis I	15	1	all	21.8
PS3022 Research Design and Analysis 2	15	2	all	21.8
PS3031 Conceptual Issues and Theoretical Perspectives	10	1(1st half)	all	21.8
PS3032 Assessment in Clinical Psychology	10	2(2nd half)	all	21.8
PS3033 Developmental Psychology	10	2(2nd half)	all	21.9
PS3034 Social Psychology	10	2(2nd half)	all	21.9
PS3035 Cognitive & Behavioural Neuroscience	10	1(1st half)	all	21.9
PS3036 Evolutionary and Comparative Psychology	10	2(1st half)	all	21.9
PS3037 Perception	10	1(2nd half)	all	21.10
PS3038 Cognition	10	1(2nd half)	all	21.10
PS4040 Psychology Review	10	whole year	all	21.10
PS4050 Psychology Project	30	whole year	all	21.10
PS4060 Review Essay	15	whole year	all	21.11
PS4064 Working Memory	15	1	all	21.11
PS4065 Visual Perception	15	2	all	21.11
PS4066 Neural Modelling	15	1	all	21.12
PS4071 Behavioural Neuroscience	15	2	all	21.12
PS4074 Cognitive Psychology and the Emotional Disorders	15	2	all	21.12
PS4080 Social Memory	15	1	n/a 09-10	21.13
PS4081 Formation and Reduction of Prejudice and Stereotyping	15	2	09-10	21.13
PS4083 Psychology of Music	15	2	all	21.13
PS4084 Psychology of Visual Art	15	2	all	21.14
PS4085 Evolution and Development of Social and Technical Intelligence	15	2	all	21.14
PS4086 Origins and Evolution of Mind Reading (Theory of Mind)	15	1	all	21.14
Russian				
RU3001 Advanced Russian Language I	15	1	all	18.38
RU3002 Advanced Russian Language I, Part 2	15	2	all	18.38
RU3005 Advanced Russian Translation I	15	1	all	18.39
RU3021 Russian Poetry of the Golden Age	15	either	all	18.39
RU3022 The Nineteenth-Century Russian Novel	15	either	all	18.39
RU3024 A Special Russian Author of the 19th Century	15	either	all	18.39
RU3025 Russian Fiction 1880-1917	15	1	all	18.39
RU3026 Russian Modernist Fiction 1900 - 1940	15	2	all	18.40
RU3027 Soviet Fiction 1917-1940	15	either	all	18.40
RU3030 A Special Russian Author of the 20th Century	15	2	all	18.40
RU3041 Early Nineteenth-Century Russian Intellectual History	15	1	all	18.40
RU3042 Mid-Nineteenth-Century Russian Intellectual History	15	2	all	18.40
RU3101 Russian Integrated Year Abroad	60	whole year	all	18.41
RU3102 Semester of Study in Russia	60	2	all	18.41

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Russian (continued)				
RU3103 Self-Access Summer in Russia	15	summer	all	18.41
RU3110 Advanced Russian Translation II	15	2	all	18.41
RU4020 Directed Readings in Central and East European Languages I	15	either	all	18.42
RU4042 The Fantastic in Nineteenth-Century Russian Literature	15	either	all	18.42
RU4101 Advanced Russian Language II	15	1	all	18.42
RU4102 Advanced Russian Oral Skills	Zero	2	all	18.42
RU4104 Russian Communication Skills	15	2	all	18.43
RU4106 Advanced Russian for Business	15	2	all	18.43
RU4128 Soviet Literature 1940-1991	15	2	all	18.43
RU4198 Dissertation on a Russian Topic	15	either	all	18.43
RU4199 Long Dissertation on a Russian Topic	30	either	all	18.44
Scottish History				
SC3003 The Weaker Sex? Women and Scottish Society, 1800-1970	30	2	09-10	14.48
SC3021 Survival and Stability: the Foundations of the Stewart Dynasty, 1371-1460	30	1	n/a 09-10	14.49
SC3022 Kingship and Tyranny: Scotland and the Age of Reform, 1513-1603	30	2	n/a 09-10	14.49
SC3023 Culture and Society in Renaissance Scotland, 1450-1550	30	2	09-10	14.49
SC3024 Age of Conquest: Edward I, Scotland and Wales (1239-1307)	30	1	09-10	14.49
SC3025 The Castle in Mediaeval Scotland, 1100 - 1550	30	1	n/a 09-10	14.50
SC3026 Normans, Natives and Norsemen: Scotland c.1050 - 1250	30	2	n/a 09-10	14.50
SC3027 Pictavia to Albania: Scotland in the Viking Age	30	2	n/a 09-10	14.50
SC3028 MacBeth and His World: Rulers and Rulership in 11 th Century North Britain	30	2	n/a 09-10	14.51
SC3029 Adomnán and his World: Scotland and Ireland In the Dark Ages	30	2	09-10	14.51
SC3033 Constructing Identities: Scottish Historians and the Past, 1707-1832	30	1	09-10	14.51
SC3043 Scottish Social Problems 1800-1990	30	2	n/a 09-10	14.51
SC3044 Scotland and Britain 1603-1707	30	1	n/a 09-10	14.52
SC3045 Scotland and the Wider World	30	1	09-10	14.52
SC3048 Pirates and Privateers in Early Modern Scottish History	30	2	09-10	14.52
SC3049 Crime, Protest and Policing in Scotland 1780-1914	30	1	09-10	14.52
SC4107 Conflict and Cohabitation: Northern Britain c. 550 - 750	60	whole year	n/a 09-10	14.53
SC4108 History & National Identity in Pre-Union Britain, 1100-1600	60	whole year	n/a 09-10	14.53
SC4109 Work and Politics in Modern Scotland	60	whole year	09-10	14.53
SC4110 The Bruce Cause: The Making of Late Mediaeval Scotland	60	whole year	n/a 09-10	14.53
SC4111 The Scottish Enlightenment	60	whole year	09-10	14.54
SC4112 Britain and the Thirty Years' War, 1618-1648	60	whole year	09-10	14.54
SC4114 The Marian Moment: Politics and Ideology in Mary Stewart's Britain 1542-1587	60	whole year	09-10	14.54

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Social Anthropology				
SA3021 Amerindian Language and Culture	30	2	n/a 09-10	19.16
SA3031 Anthropological Study of Language and Culture	30	1	n/a 09-10	19.16
SA3032 Regional Ethnography I	30	2	all	19.16
SA3033 Regional Ethnography II	30	1/2	tbc	19.17
SA3046 Anthropology and Development	30	1/2	n/a 09-10	19.17
SA3048 The Anthropology of Art	30	2	tbc	19.17
SA3049 Perception, Imagination and Communication	30	1	09-10	19.17
SA3050 Interpreting Social and Cultural Phenomena	30	1	tbc	19.18
SA3053 Individuality, Community and Morality	30	2	tbc	19.18
SA3055 Anthropology and History	30	1	tbc	19.18
SA3056 Melanesian Anthropology	30	2	09-10	19.18
SA3057 Sex and Gender	30	1	tbc	19.19
SA3059 Colonial and Post-colonial Representations	30	2	09-10	19.19
SA3060 Contemporary Issues in Social Anthropology	30	1/2	tbc	19.19
SA3061 Reading Ethnography	30	1	n/a 09-10	19.19
SA3062 Anthropology, Indigenous Peoples and Resource Management	30	2	n/a 09-10	19.20
SA3506 Methods in Social Anthropology	30	2	all	19.20
SA4005 The West Indies and the Black Atlantic	30	1	n/a 09-10	19.20
SA4058 Visual Anthropology	30	1	n/a 09-10	19.21
SA4098 Library-based Dissertation	30	1	all	19.21
SA4099 Primary Research-based Dissertation	30	1	all	19.21
SA4850 Andes	30	1	n/a 09-10	19.21
SA4855 Anthropology, Literature and Writing	30	2	n/a 09-10	19.22
SA4856 Anthropology, Christianity and Modernity	30	2	09-10	19.22
SA4857 West Africa	30	1	tbc	19.22
SA4858 What is Knowledge? An Anthropological Enquiry	30	2	n/a 09-10	19.22
SA4860 Anthropology of Amazonia	30	2	09-10	19.23
SA4861 Ethnography of Fieldwork	30	2	09-10	19.23
SA4862 Imagining the World: the Anthropology of Consciousness	30	2	n/a 09-10	19.23
Spanish				
SP3001 Spanish Language I	15	1	all	18.44
SP3002 Spanish Language II	15	2	all	18.44
SP3006 Literary Translation	15	1	09-10	18.45
SP3011 History of the Spanish Language	15	1	09-10	18.45
SP3101 Spanish Integrated Year Abroad	60	whole year	all	18.45
SP3111 Honours Spanish I (Science)	15	1	09-10	18.45
SP3112 Honours Spanish II (Science)	15	2	09-10	18.46
SP3124 Spanish Cinema (Director/Auteur)	15	1	10-11	18.46
SP3138 Mexico in the Nineteenth Century	15	2	10-11	18.46
SP3140 Literature and Politics in Spain 1930-1939	15	1	09-10	18.47

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Spanish (continued)				
SP3145 Post-1975 Writing in Spain, I	15	1	09-10	18.47
SP3147 The Art of Subversion in Post-War Spain (1939-1975)	15	2	10-11	18.47
SP3148 The Argentine and Chilean Avant-Garde (1920s-1930s)	15	2	09-10	18.48
SP3157 Autobiographical Writing in 20th Century Spain	15	2	10-11	18.48
SP3159 Gender and Violence in Golden Age Literature	15	1	10-11	18.48
SP3160 Facing the New: Spanish Literature and Society (1888-1918)	15	2	09-10	18.49
SP3198 Spanish Dissertation (Science)	15	either	all	18.49
SP3221 Conflict and Society	15	1	all	18.49
SP3222 Love and Loss	15	2	all	18.49
SP4003 Spanish Language III	15	1	all	18.50
SP4004 Spanish Language IV: Communication Skills	15	2	all	18.50
SP4008 Contemporary Spanish Language	15	2	all	18.50
SP4012 Linguistic Study of the Spanish Language	15	2	09-10	18.50
SP4098 Dissertation on a Spanish Topic	15	either	all	18.51
SP4099 Long Dissertation on a Spanish Topic	30	whole year	all	18.51
SP4102 Semester with Study Abroad in Spain	30	1	all	18.51
SP4103 Residential Project in Spanish Speaking Country	15	1	all	18.51
SP4113 Honours Spanish III (Science)	15	1	all	18.52
SP4114 Honours Spanish IV (Science) : Communication Skills	15	2	all	18.52
SP4198 Spanish Dissertation (Science)	15	1	09-10	18.52
SP4223 History and Culture	15	1	all	18.53
SP4224 Reality & Illusion	15	2	all	18.53
Sustainable Development				
SD3001 Case Studies in Sustainable Development	20	1	all	22.2
SD3002 Review Essay in Sustainable Development I	20	2	all	22.2
SD4001 Case Studies in Sustainable Development II	20	1	all	22.2
SD4002 Dissertation in Sustainable Development	60.0	whole year	all	22.2