

2012 - 2013

Honours Level Course Catalogue

updated.7-9-12.



University of
St Andrews

600
YEARS

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UNIVERSITY OF ST ANDREWS

Semester Dates 2012-2013

Orientation Week:	Week commencing Monday 10 September 2012
Martinmas Semester:	Monday 17 September 2012 – Friday 21 December 2012
Raisin Monday:	Monday 29 October 2012
Graduation:	Friday 30 November 2012 (no teaching all day)
Revision Period:	Commences Monday 3 December 2012
Examinations:	Monday 10 December 2012 – Thursday 20 December 2012
Christmas Vacation:	Monday 24 December 2012 – Sunday 6 January 2013
Inter-Semester:	Monday 7 January 2013 - Sunday 27 January 2013
Candlemas Semester:	Monday 28 January 2013 – Friday 31 May 2013
Spring Vacation:	Monday 18 March 2013 – Sunday 31 March 2013
Revision Period:	Commences Monday 29 April 2013
May Day Holiday:	Monday 6 May 2013 (no teaching all day)
Examinations:	Monday 13 May 2013 – Friday 31 May 2013
Graduation:	Tuesday 25 June 2013 – Friday 28 June 2013
Resits:	Week commencing Monday 19 August 2013

N O T E

The printing of this year's Undergraduate Course Catalogue marks a transition in our modes of production and presentation. Two developments in 2011-12 have led to an initial redesigning of the Course Catalogue in order to meet new demands. The joint Registry/Publications project to express degree programme requirements in terms of Years (rather than Levels) is in its final stage and the results of this work are available here for the first time in printed form. In addition, the requirements of the Key Information Sets (KIS), published for the first time in September 2012, have put a greater emphasis on auditability and visibility of institutional information relating to teaching and learning. Total module hours (whether scheduled, guided or placement) are available under the heading "Learning and Teaching Methods and Delivery". Differences in local practice or terminology in relation to assessment patterns have been clarified by the phrases "As defined by [the Quality Assurance Agency] QAA" and "As used by St Andrews". Work will continue in 2012-13 to improve the efficiency of production and finesse the functionality by design of the Course Catalogue.

The University's Rules and Regulations for matriculated students can be found online at:
www.st-andrews.ac.uk/students/rules

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.

The Course Catalogue is also available online at:
www.st-andrews.ac.uk/coursecatalogue

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Introduction to the Course Catalogue

The purpose of this Catalogue is to provide students and their Advisers with the information they need in order to make academically informed choices about degree programmes and modules or combination of modules. The **General Guidance** section describes, in more accessible terms, the processes and procedures which are formalised in the Regulations. Particular attention should be given to the information that this section provides about the procedure called **Advising of Studies**.

The main body of the Catalogue is structured in relation to the degree programmes and modules which are offered by eighteen Schools in the University. In addition, there are sections for the B.A. (International Honours) programme in collaboration with the College of William & Mary (section 24), and Interdisciplinary Modules (section 23).

Each School entry contains:

- (i) a list of the degree programmes (Single Honours, Joint Honours, Triple Subject Honours, "With" degrees, Interdisciplinary degrees) offered by the School;
- (ii) the general requirements which lead to those degrees;
- (iii) the modules which may, or must, be taken as part of those degrees including requirements for entry into Honours;
- (iv) details of the 3000-level, 4000-level, and where applicable 5000-level modules, including their credit values.

Explanation of Fields in Module Entries

Module number and Title. Self explanatory

Academic Year. The academic session (whether current or planned) in which the module will be offered.

SCOTCAT Credits. Credits are the number of points a specific module contributes towards a recognised degree programme and are grouped according to 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, 1000-level modules in the School of Art History are worth 20 credits. One credit represents the outcome achievable by the average student through 10 notional hours of learner effort. In practice, one full-time undergraduate year is considered to be 120 credits worth of learning (or 1,200 notional hours of learning).

Semester. The Semester or Semesters in which the module is taught, where 'either' means that the module is taught in both one or the other semesters, 'both' means being offered twice, and 'whole year' means that it is taught across the two semesters.

Additional Semester Information. Where a module is taught for part of a semester, or during the summer, that information will be included in this field.

Availability Restrictions. If a module is available but with constraints, these particular restrictions will be clarified in this field.

Module Coordinator. The academic member of staff responsible for this module, or the contact point for further information.

Module Lecturer/Tutor. One or more academic members of staff who are planned to deliver the content of the module.

Pre-requisite. Second semester modules and 2000-level or above may have pre-requisites reflecting the assumption that they build upon previous knowledge gained. So, for example, the pre-requisite for entry to 2000-level modules in French is a pass in either or both of the 1000-level modules. In the case of certain modules, largely 1000 level, pre-requisites may be framed in terms of specified passes at Higher or A-level. The Head of the relevant School has the authority to waive a pre-requisite. Where the pre-requisite is not simply a pass in another module but includes a grade (eg, '11 or better') the number refers to the **20-point reporting scale**.

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

Anti-requisite. Students may **not** take a module if they have already passed or are currently taking any module or other qualification specified as an anti-requisite to it.

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Programme(s). This indicates how the module fits into various programmes of study (eg, Mathematics and Psychology).

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

Planned Timetable. Most 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.

Weekly Contact. 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 contact is given**. A tutorial is a discussion class of typically ten or fewer students. A seminar is typically a larger group, and may also involve student presentations and contributions as well as discussion.

Contact Hours (Learning and Teaching Methods with contact hours). This gives the breakdown between Scheduled Learning (with an academic member of staff) and Guided Independent Study (which a student undertakes alone but often under direction) as defined by the Quality Assurance Agency (QAA).

Assessment. A brief description of the distribution between coursework and formal examination. A percentage breakdown of which elements of assessment qualify in each Quality Assurance Agency (QAA) defined category are also given. These may match the narrative description, or they may differ slightly because some elements of Coursework (Class Tests for example) are considered Written Examinations in this context.

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 on the basis of qualifications already earned in order to facilitate accelerated progression in a named degree programme. Advanced Standing Credits may be withdrawn if the student does not progress in the degree programme for which the credits were awarded. See also **RPL - Recognition of Prior Learning**.

Advising of Studies. 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 each **session**. Full-time students are expected to take at least 80 credits and under no circumstances no 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 (ECTS); RPL - 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 programmes, 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 degree programmes 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 (ECTS). 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 other institutions 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**

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Education and the Diploma of Higher Education. A General Degree may also be a valid exit point for students who do not meet the requirements for the award of an Honours Degree.

Faculty. At admission students are admitted into a Faculty. There are four faculties: Arts, Divinity, Medicine and Science. Although Arts and Divinity are treated as a single entity for administrative purposes, Divinity degrees have a discrete set of Regulations and requirements. Several Schools may offer both B.Sc. and M.A. degrees, governed by the relevant Science or Arts degree Regulations.

Failure to Register Policy. This policy relates to students who fail to complete the registration process in any given academic year in which they are actively engaged with their studies, or who fail to obtain permission from the University to interrupt their studies. Failure to register by the published deadlines will result in termination of studies. For details see policy at:

<http://www.st-andrews.ac.uk/students/rules/matriculation/FailuretoRegisterPolicy-UGandPGT/>

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 a B.Sc., M.Theol. or M.A. degree.

Grades. A student who passes a **module** will have gained both **credits**, reflecting the workload and study time of the module, and a **grade**, reflecting the quality of the work. The grade is numeric and 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 periods: 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", Triple Subject 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), except for the B.A. (International Honours) degree, where special regulations apply.

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 1000- and/or 2000-level modules ('dip down') or 30 credits in an Honours module or module(s) outwith the programme ('dip across'). The M.Chem., 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 three years to complete) are the exceptions to the 240 credit requirement for Honours programmes. The relevant School entry should be consulted for more information.

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 **pre-requisites**. It normally comprises 3000-level modules and above. The duration of the Honours Programme is two years in the case of the B.Sc, M.A. and M.Theol. degrees or three years in the case of B.Sc./M.A. with Integrated Year Abroad, M.Chem., M.Geol., M.Math., M.Phys. and M.Sci.

International Honours programmes are offered in collaboration with the College of William & Mary, Virginia, U.S.A., whereby students divide their sub-honours and Honours programmes between the two institutions. Special regulations apply to these programmes.

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 (eg, credit distributions of 155:85, 140:100, or 120:120 are all valid). 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 no more than two years, may be granted on medical or personal grounds by the relevant Faculty Dean. Applications to take Leave of Absence should be submitted to the relevant Faculty Pro Dean (Undergraduate). Students should request Leave of Absence from the Pro Dean (Undergraduate) if they are unable to attend University for more than three consecutive weeks.

Levels. The level of academic content and externally assured outcomes of a module. 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

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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 Element. The first named subject in a **“With” degree programme** (see definition below) is described as a **major** element and is presented using the term ‘with’ between the subjects (eg, the degree MA (Hons) Spanish with Geography requires 180 credits in Spanish at 3000 level and above and 60 credits in Geography so Spanish is the major element in the degree programme).

Minor Element. The second named subject in a **“With” degree programme** (see definition below) is described as a **minor** element and is presented using the term ‘with’ between the subjects (eg, the degree MA (Hons) Spanish with Geography requires 180 credits in Spanish at 3000 level and above and 60 credits in Geography so Geography is the minor element in the degree programme).

Module. Degree programmes are modular in structure. The key elements of a module are **credit**, **level** of study, title, **description** of content, requisites, **assessment** requirements, and **availability** (session and semester). Other elements include contact hours, graduate attributes, learning outcomes, etc. Each module will be a self-contained unit of teaching, learning and assessment. For the majority of modules teaching will take place in an 11-week teaching block, perhaps broken by a 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 academic session. This process is required but is not complete until formal **Advising** has taken place.

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

Programme Pre-requisites. Sub-honours requirements for entry to designated Honours programmes. May include such things as specific modules to be taken, grades for specific modules, credits from a range of designated modules.

Qualifications. Each type of qualification (eg, B.Sc. or M.A.) is governed by a set of Senate Regulations, and is awarded under a specific Court Resolution. All taught degree programmes require a programme specification published with guidance from the Quality Assurance Agency (QAA) and referencing the Scottish Credit and Qualifications Framework (SCQF).

- The Faculty of Arts may award M.A. General and Honours degrees. There is a B.A. (International Honours) degree awarded jointly with the College of William & Mary, Virginia, USA. There is also a **Licentiate of Integrated European Studies** (see page x.5) which may be taken by European students in the School of Modern Languages.
- The Faculty of Divinity may award General and Honours M.Theol. and B.D. degrees.
- The Faculty of Medicine may award General and Honours B.Sc. Medicine degrees.
- The Faculty of Science may award General and Honours B.Sc. degrees as well as enhanced more intensive M.Chem., M.Eng., M.Geol., M.Math., M.Sci. and M.Phys. degrees.

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 periods called **semesters**. Semester 1 runs from September to December, Semester 2 runs from January 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, Triple Subject Degrees** and **“With” degrees**.

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Sponsio Academica. At matriculation, students agree to an oath shown online as part of online matriculation 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 in print form, with electronic signature of the online matriculation process 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 as defined in the Senate Regulations will have their studies terminated. Individual students have the right to request a review by the relevant Dean and a decision made as to whether they are allowed to continue their studies. Students who are in this situation will be notified and will be given a limited period to inform the Dean of any circumstances that have adversely affected their performance in order that these may be taken into account. Failure to notify the Dean of such circumstances by the published deadline will normally lead to the automatic termination of studies with immediate effect.

Triple Subject Degrees are those in which three subjects (at least two of which are Modern Languages) are studied through to Honours level. The proportion of credits in each subject may vary from one-quarter to one-half of the total Honours credits, depending on the individual programme requirement, but all three subjects are included in the degree title.

"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. 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** elements.

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, e.g., 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 module 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.

www.st-andrews.ac.uk/staff/academic/assessment/award/gradingsheets

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.

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 must achieve a minimum overall grade average of 11 on the University reporting scale, subject to their programme including 3000- to 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/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 programme. 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 as part of online 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 a student's academic career, the Adviser is also a student's first point of contact for any related issues, especially in the first year of study. Advisers will also be able to direct students to the various sources of information or support available in the University (e.g. Academic Schools, Student 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 online 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 and guide students to the Honours level modules in their particular subject. Unlike Sub-Honours Advisers they cannot advise students into Honours modules in any subject, other than their own. Equally, a student may only be advised into an Honours level module by the Honours Adviser for that subject.

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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 online system is open during the summer and enables entrant students to select and enter modules online (a University e-mail address and password are required for this). 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. All pre-advising is done online and is provisional. Schools will provide all the necessary information for module selection for students entering Honours.

Advising – first meeting with Advisers and validation of module choices

First and second year students have individual appointments with their Advisers scheduled in the week prior to the start of teaching, 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 (and from January for semester 2 modules) 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 considers email 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 email regularly and at least every 48 hours to ensure you receive all notifications sent to you in this way.

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

<https://isaint.st-andrews.ac.uk/>

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 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 online. It is your responsibility to report any incorrect modules to the Pro Dean (Advising) 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 and Leave of Absence

You may decide that you wish to withdraw from your studies either temporarily or permanently. A temporary withdrawal is known as a Leave of Absence and can be on medical or personal grounds. Leaves of Absence can normally be requested for one or two semesters and only in exceptional circumstances will a Leave of Absence be granted for more than two consecutive years in total. If an undergraduate is absent from a module for three or more weeks consecutively they must either take Leave of Absence or withdraw permanently from their studies.

If you do decide you wish to take a Leave of Absence or withdraw permanently, you must consult the ASC or the Registry where you will be given an appointment with the Pro Dean (Undergraduate) of your Faculty, who will advise you and decide whether to approve your withdrawal. This procedure of formal approval is necessary for the notification of academic Schools, Registry, Student Accommodation Services etc., and also for any Funding Body involved.

Students admitted to an Honours programme who decide not to complete the programme can graduate with a General Degree if they have satisfied the requirements for this degree. If you wish to graduate with a General Degree, you should inform the Registry and the Pro Dean (Advising) in your Faculty in writing or by email from your University account as soon as you reach this decision, and no later than the deadline for applying to graduate if you wish to graduate at the next graduation ceremony. The deadline for applying to graduate can be found on the Graduation web pages and is usually in early May for the June ceremonies and in early November for the November ceremonies.

Students who withdraw and are not eligible for a General Degree may be offered a Certificate or Diploma of Higher Education, depending on the credit they have accumulated at St Andrews.

4. Academic Progress

Students must acquaint themselves with the Senate Regulations on attendance and the compulsory 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 a fail in that module with no right to re-assessment. Please ensure that you are familiar with the requirements 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 as soon as possible. This is available at: www.st-andrews.ac.uk/students/rules/selfcertification

Under certain circumstances, Schools may request further documentation in addition to the Self Certificate. In this case, students should contact Student 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 Services, the Pro Dean (Undergraduate), 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 to the University Examinations Office by telephone 01334 46 4100 IMMEDIATELY as soon as you know you will be unable to sit an examination. This should then be followed up by completion of a Self Certification of Absence form from www.st-andrews.ac.uk/students/rules/selfcertification. 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. Temporary module codes (different from the list below) are set up on a subject and semester basis and all students will be advised into them normally by week 2 of the first semester.

The module codes used for reporting purposes are listed below and reflect as well as possible what the student has studied 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 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 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 codes currently available for reporting purposes are:-

	Semester 1		Semester 2	
10 credits	3967, 3969, 3985, 3987, 3995, 3997, 3999	4985, 4987	3966, 3968, 3970, 3986, 3988, 3996, 3998	4986, 4988
12 credits	3919, 3929, 3939, 3949, 3959		3948, 3950, 3952, 3954, 3956	4962
15 credits	3961, 3963, 3977, 3979, 3989, 3993	4977, 4979	3962, 3964, 3978, 3980, 3990, 3994	4978, 4980
20 credits	3981, 3983, 3991	4981, 4983	3982, 3984, 3992	4982, 4984
24 credits			3958, 3960	4964, 4966
30 credits	3973, 3975	4973, 4975	3974, 3976	4974, 4976
45 credits				4990
60 credits	3971		3972	4972

Undergraduate Resolutions and Regulations: Session 2011-12

The Regulations published here are provisional until Monday, 10 September 2012 at which time they will be superseded by those published online at www.st-andrews.ac.uk/students/rules.

1. COURT RESOLUTIONS

The University has the power to confer degrees under the various Court Ordinances and Resolutions detailed below. The full text of each can be found on the University Court website at www.st-andrews.ac.uk/about/UniversityCourt/Ordinancesandresolutions. The Senatus Academicus, with the approval of the University Court, has the power to make regulations on any matters in order to give effect to these instruments.

- Resolution 1994 No.1 - Conferment of Undergraduate Degrees (4 July 1994)
- Resolution 2000 No.4 - Degree of Master in Physics (M.Phys.) (2 March 2001)
- Resolution 2001 No.3- Degrees of Doctor of Engineering (D.Eng.), Master of Engineering (M.Eng.), and Bachelor of Engineering (B.Eng.) (8 March 2002)
- Resolution 2008 No.3 - Degree of Bachelor of Arts (International Honours) (5 December 2008)
- Resolution 2009 No.1 – Degree of Master of Research in Medicine (26 February 2010)

2. SENATE REGULATIONS

DEFINITIONS

“Dean of the Faculty” for	the Dean of the Faculty or other Faculty Officer to whom the Dean may delegate the authority
“Head of School” for	Head of School or the person to whom the authority may be delegated
“TLA Committee” for	Teaching, Learning and Assessment Committee or the standing Committee to which it may delegate the authority
“Requirements for a module” for	attendance at such classes, performance of such work and completion of all the assessment at such a standard as may be specified by the School concerned
“full-time study” for	full-time study or equivalent period of part-time study, where the equivalent period for an honours programme is normally twice the period specified.
“Honours Programme” for	that element of the Degree Programme which comprises 3000 level modules and above.

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I GENERAL REGULATIONS

A. General Entrance Requirements

1. A candidate under 21 years of age offering traditional UK school leaving qualifications will normally be expected to have a minimum of:

three SQA Higher grade passes or

two GCE Advanced level passes or

one GCE Advanced level plus two Advanced Supplementary level passes

together with a pass in SQA Standard Grade English at grade 3 or better, or an equivalent qualification, in order to gain admission to the University.
2. A candidate for admission to a Faculty must have obtained prior to admission qualifications which satisfy the above minimum and the Faculty Entrance Requirements determined by the Teaching, Learning and Assessment Committee and such other requirements as the Senatus Academicus may approve.
3. Any or all of these requirements may be waived by the Director of Admissions in consultation with the Dean of the relevant Faculty either for candidates who are at least 21 years of age on entry or in order to promote wider access.

B. Credit Transfer

4. A student who, before matriculating in a Faculty, has completed a period of study in another University or Institution of Higher or Further Education, or has alternative accredited study, may be deemed by the Dean of that Faculty to have gained up to 120 credits for courses passed in each year of study in that institution up to a maximum of 240 credits. For a student admitted to the part-time evening degree programme a maximum of only 180 credits may be awarded in recognition of prior study.
5. A candidate for an Honours degree, who has obtained appropriate Advanced Level, Advanced Higher or equivalent passes, may be offered entry with advanced standing. Such candidates may be awarded up to 120 credits towards a particular degree programme by the relevant Dean.
6. In the case of students eligible for admission under 4 above, the Head of School in consultation with the Dean of the Faculty shall determine the programme and module prerequisites that are deemed to have been fulfilled by prior study.
7. For students registered on an accredited overseas educational programme, a period of study at a foreign university will form an integral and compulsory part of the degree programme.

C. Students

8. A student may be admitted as a graduating student who intends to complete a programme of studies leading to the award of a degree or as a non-graduating student who does not intend to complete a programme of studies leading to the award of a degree or other qualification.

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9. A student, graduating or non-graduating, may be admitted to full-time study or to part-time study. A full-time student shall at the beginning of each year register normally for modules leading to the award of 120 credits, or 60 per semester. Under no circumstances may a student register for more than 160 credits per session. A part-time student shall at the beginning of each year normally register for modules leading to the award of at least 20 credits per semester and normally no more than 80 credits per session.
10. A non-graduating student may transfer to graduating status with the Dean's permission.
11. No students shall be admitted to any module unless they have had their programmes of studies approved by the Dean of the relevant Faculty and have matriculated in the University. Students may, with the permission of the Dean of the relevant Faculty, amend their programmes of studies, but only up to the end of the second week of each semester. Exceptionally, the Dean of the Faculty, with the approval of the Head of School(s) concerned, may permit later amendments.

D. Modules and Assessments

12. No student may enrol in a module who does not have the prerequisite(s) for that module save with the permission of the Head of the School concerned and of the Dean of the relevant Faculty.
13. Normally, no full-time student may enrol for a 3000 level module with fewer than 200 credits, including at least 40 at 2000 Level. Modules at 4000 and 5000 level may only be taken as part of an approved honours programme.
14. Regular attendance (as set down in School Handbooks) is required from all students who wish to proceed in a module. Students who breach this requirement may be awarded OX by the Module Board and receive no credits for the module.
15. No student who has been absent from a module for three consecutive weeks shall be permitted to continue in that module, save in exceptional circumstances and with the consent of the Dean of the relevant Faculty.
16. A student who is absent from classes, or withdraws from the University, for a two year period, may be required to reapply for admission and in such circumstances the Dean of the Faculty will determine the amount and nature of the credit to be awarded in respect of any previous study.
17. To gain a pass in a module a student must perform at, or above, the standard specified in the School Handbook for that module. A student who gains a pass in a module shall be awarded the credits for that module.
18. The method of assessment for a module shall be by examination, by assessment of coursework, or by a combination of both, or by a means of a written dissertation.
19. There will be a diet of examinations at the end of each semester and there will be a reassessment diet, or other reassessment opportunity, before the end of the session.
20. Students enrolled in a module proceed to an end-of-semester assessment and (if unsuccessful in the assessment) to reassessment subject to the two following requirements:
 - (a) where the student has fulfilled the terms and conditions of attendance and submission of work required in the School Regulations; and

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(b) where the student has in the end-of-semester examination fulfilled the requirements laid down in the School Handbook.

21. Students who fail reassessment in a module are not eligible for a further reassessment.
22. The Deans, with advice from the Faculty Executive Groups, shall approve the modules which may be offered in the Faculty, and, for each module, shall determine:-
 - (a) the prerequisites;
 - (b) the method of assessment; and
 - (c) the credits to be awarded to a student who passes the assessment.

E. Certificates, Diplomas and Degrees

23. A student must have gained passes in modules taught in the University worth at least 120 credits in order to be eligible for the award of a Certificate or Diploma and at least 180 credits to be eligible for any degree. Exceptions to this requirement may be made at the discretion of the Dean of the relevant Faculty.
24. A graduating student who, over a minimum period of one year of full-time study, has gained passes in modules taught in the University worth 120 credits shall be eligible for the award of a Certificate of Higher Education.
25. A student who, over a minimum period of two years of full-time study, has gained 240 credits in modules taught in the University, of which at least 80 are in 2000 level modules, shall be eligible for the award of a Diploma of Higher Education.
26. A student who, over a minimum period of three years of full-time study has gained 360 credits, of which at least, 80 are in 2000 level modules and at least a further 60 are in 3000 level modules and who has fulfilled such other requirements prescribed in the Regulations for the M.A., M.Theol., B.Sc., or B.Eng., shall be eligible for the award of a General Degree.
27. The General Degree may be awarded with Distinction to a candidate who fulfils the conditions for the award of the degree and who either gains passes at grade 16.5 or above in modules totalling at least 120 credits; or gains passes at grade 13.5 or above in modules totalling at least 180 credits, of which modules worth at least 20 credits out of the 180 must be passed at grade 16.5 or above, and at least 40 credits of the 180 must be in 2000 and 3000 level modules. Each individual module counting towards the Distinction must be passed at the indicated level: use of Grade Point Average across 120 or 180 credits is not acceptable.
28. A student who, over a minimum period of four years of full-time study, has gained 480 credits, of which at least 240 credits were gained during an approved Honours programme involving Honours modules worth at least 210 credits and including at least 90 credits in 4000 level modules, and has satisfied the appropriate Board(s) of Examiners, shall be eligible for the award of B.Sc./M.A./ B.Eng. or M.Theol. degree with Honours in the subject(s) of that Honours programme. In the case of the B.Sc Chemical Sciences programme the minimum number of Honours credits is 200 of which at least 90 credits are in 4000 level modules.

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29. A student who over a minimum period of five years of full-time study, or four where Advanced Standing has been awarded, has gained 600 credits of which at least 120 are at 5000 level within an approved Integrated Masters programme, and involving Honours modules, at 3000 level and above, worth at least 330 credits, and who has satisfied the appropriate Board(s) of Examiner(s), shall be eligible for the award of a Masters degree with Honours in the subject(s) of that programme.
30. There will be Integrated Masters programmes in Chemistry (Master in Chemistry), Engineering (Master in Engineering), Mathematics (Master in Mathematics), Physics (Master in Physics) and Science (Master in Science).
31. In order to be eligible for the award of an Honours degree with Integrated Year Abroad a student must, over a minimum period of five years of full-time study, gain 540 credits and satisfy the appropriate Board(s) of Examiners. These credits must include at least 300 obtained during an approved three year programme, involving Honours modules worth at least 210 credits including at least 90 at 4000 level, and additionally 60 credits gained during an Integrated Year Abroad.
32. There shall be five types of Honours Degrees: Single Honours; Joint Honours; "With" Degrees (Honours); Triple Subject Honours Degrees involving Modern Languages; and International Honours.
 - (a) Single Honours degrees shall be degrees where the number of required credits in a single subject area exceeds three-quarters of the total credits for the Honours programme. Any other subjects taken as part of the Honours programme shall not be named.
 - (b) Joint Honours degrees shall be degrees where more than one-third of the credits of the Honours programme are taken in each of two subject areas. In these cases both subjects will be named.
 - (c) "With" Degrees (Honours) shall be 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.
 - (d) Triple Subject Honours degrees involving three modern languages or two modern languages and one other subject shall be degrees where credits for an Honours programme are obtained from three subject areas, at least two of which are modern languages, and where no more than one-half and no fewer than one-quarter of the credits are taken in each of the three subjects.
 - (e) International Honours degrees shall be degrees where the number of required credits in a single (or core) subject area equals three-quarters of the total credits for the Honours programme. Any other subjects taken as part of the Honours programme shall not be named.
33. There shall be three classes of Honours determined by performance in the Honours Programme: First Class, Second Class, which shall be divided into II(1) and II(2), and Third Class, except that Third Class Honours shall not be awarded in an International Honours programme. Boards of Examiners involving one or more Modern Languages shall be empowered to award a distinction in the spoken language(s).

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34. Only grades from 3000-level, 4000-level and 5000-level (where applicable) modules, taken during an approved Honours programme, will be used to calculate the Honours degree classification. Any grades obtained in such modules prior to admission to an Honours programme will not be used. Exceptions to this requirement may be made at the discretion of the relevant Dean.
35. Grades achieved during study abroad will be entered into the Honours degree calculation, but this will not occur for any ungraded credits from study abroad or credits not formally approved as part of an Honours programme.
36. A student who fails the assessment of an Honours module may be reassessed by such means as the Board of Examiners may decide is appropriate. Honours classification shall be based on the grades achieved in the assessment for each module. Honours grades passed at reassessment will be capped at grade 7.0 and will be entered into the Honours degree calculation as a grade of 7.0. For Honours modules failed at reassessment (and no credit gained) the original failed grade will be included in the calculation of the Honours degree classification.
37. For a student who fails an Honours module at both first sitting and reassessment but then subsequently re-takes and passes the module, both the original and subsequent grades will be entered into the calculation of the Honours degree classification.
38. A student who is awarded a 0X by the Module Board in an Honours level module will have a grade of 0 entered into the calculation for the Honours degree classification even though no credits are obtained for the module.
39. A student who, owing to medically certified illness or other serious cause, cannot complete the assessment for a module may be assessed by such means as the Board of Examiners shall determine.
40. The Deans, with advice from the relevant Faculty Executive Groups, shall approve, for each Honours programme:-
 - (a) any prerequisites for admission to the programme in addition to those general prerequisites stated in the Regulations;
 - (b) the modules, both obligatory and optional, that are available within that programme;
 - (c) amendments to the programme for students who spend part of the study period following an approved course of studies in another institution.
41. No student may enter an Honours programme who does not have the prerequisites for that programme, save with permission of the Head(s) of School(s) concerned; the prescribed grades for those prerequisites at 2000 level may not normally be gained through re-assessment.

F. Termination of Studies

42. I. In order to continue to a further semester a full-time matriculated student must have passed a module or modules worth at least 20 credits in the current semester of study and:-
 - (a) must have gained 80 credits after two semesters of study as a matriculated student;
 - (b) must have gained 160 credits after four semesters of study as a matriculated student;
 - (c) must have gained 240 credits after six semesters of study as a matriculated student;

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- (d) must fulfil the requirements for the degree for which they are registered within two semesters of study as a matriculated student of the minimum period specified for that degree;
 - (e) having been admitted to an Honours degree programme, must have completed the requirements for that programme within the period of study which has been specified for that programme.
- II. A part-time matriculated student must have passed a module or modules worth at least 15 credits in the current semester of study and:-
- (a) must have gained 30 credits after two semesters of study as a matriculated student;
 - (b) must have gained 90 credits after six semesters of study as a matriculated student;
 - (c) must have gained 160 credits after ten semesters of study as a matriculated student;
 - (d) complete the requirements for the General degree after eighteen semesters of study as a matriculated student.
 - (e) having been admitted to an Honours degree programme, must have completed the requirements for that programme normally within twice the period of study which has been specified for that programme.

43. Students who fail to meet the requirements in 42 shall have their studies terminated and shall cease attending modules.

44. Students whose studies have been terminated have the right to request permission to continue their studies in the following semester. They may apply to the relevant Dean who shall determine either that the students' studies be terminated or the conditions under which students may be permitted to continue their studies.

G. Academic Misconduct

45. If academic misconduct relating to work assessed as part of a qualification awarded by the University of St Andrews is at any time proven against someone holding such a qualification, the University reserves the right to withdraw or reclassify the qualification awarded.

H. Teaching

46. There will be no compulsory undergraduate teaching and/or curricular activity after 1pm on Wednesday afternoons during Michaelmas and Candlemas semesters. Any request to allow an exception to this regulation must first be made in writing by the Head of School to the Vice-Principal (Proctor), with appropriate documentary evidence.

I. Special Programmes

47. Gateway to Physics and Engineering. Students admitted to this programme are on entry required to enrol on a number of requisite 1000 level modules. After the first year there are two available progression routes; one into Physics at St Andrews and the other into Engineering or Physics at Heriot-Watt University. To progress into second year at St Andrews, students who enter via the Gateway programme must gain credit in all requisite 1000 level modules for this programme, and obtain a credit-weighted mean from these modules of at least grade 11. To progress into second year at Heriot-Watt, students must gain credit in all the requisite modules.

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II ARTS REGULATIONS

A. Faculty Entrance Requirements

1. In addition to the General Entrance Requirements, prior to admission to study in the Faculty, a student must have gained a pass at SQA Standard Grade, at grade 3 or above, or its equivalent, in Mathematics. It is also desirable that students have gained a pass at SQA Standard Grade, at grade 3 or above in a language other than English (with the exception of Modern Languages students who will have higher entry requirements).

The Dean may grant exemptions from these conditions.

B. Subjects

2. Modules in the following subjects shall be recognised as qualifying for the award of any M.A. degree:-
 - (i) Ancient History, Mediaeval History, Modern History, Scottish History;
 - (ii) Art History, Classical Studies, Music, Film Studies;
 - (iii) Arabic, English, French, German, Italian, Russian, Spanish, English as a Foreign Language;
 - (iv) Economics, Geography, Management, International Relations, Psychology, Social Anthropology; Sustainable Development;
 - (v) Greek, Hebrew, Latin;
 - (vi) Information Technology, Mathematics, Statistics;
 - (vii) Divinity, Linguistics, Philosophy;

any subject qualifying for a degree in another Faculty.

C. General Degree

3. The degree of M.A. (General) may be awarded to a student who has gained not less than 360 credits, of which:-
 - (a) at least 240 have been gained in subjects listed in Arts Regulation 2 (i) - (vii);
 - (b) at least 40 credits have been gained in subjects in each of at least three of the groups listed in Arts Regulation 2;
 - (c) at least 80 credits have been gained in 2000 level modules.
 - (d) at least 60 credits have been gained in 3000 level modules.

D. Honours

4. A student who has gained at least 240 credits, of which:-
 - (a) at least 160 credits have been gained in modules identified by Arts Regulation 2 (i) - (vii) above;
 - (b) at least 80 credits have been gained at 2000 levelmay be admitted to an Honours Degree programme.

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A student having satisfied (a) and (b) but gained less than 240 credits may be permitted, with the permission of the Head(s) of School concerned, to enter an Honours programme and to attend additional 1000 or 2000 level modules worth up to 40 credits in the first year of the Honours programme. No student may be permitted to proceed to the final year of the Honours programme who has gained fewer than 240 credits in 1000 and 2000 level modules in accordance with (a) and (b).

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III DIVINITY REGULATIONS

A. Subjects

1. The following subjects shall be recognised as qualifying for the award of any M.Theol. and B.D. degree:-
 - (i) Divinity
 - (ii) any subject qualifying for a degree in another Faculty.

B. General Degree (M.Theol.)

2. The degree of MTheol (General) may be awarded to a student who has gained not less than 360 credits, of which:-
 - (a) at least 240 credits have been gained from 1000 and 2000 level modules, including modules specified as part of the approved 1000 and 2000 level module requirements;
 - (b) at least 80 credits have been gained in 2000 level modules;
 - (c) at least 60 credits have been gained from 3000 level modules in Divinity.

C. Honours Degree (M.Theol.)

3. A student who has gained at least 240 credits:-
 - (a) of which at least 80 credits have been gained at 2000 level;
 - (b) including those modules specified as part of the approved 1000 and 2000 level module requirements

may be admitted to an Honours Degree programme.

A student having satisfied (a) and (b) but gained less than 240 credits may be permitted, with the permission of the Head(s) of School concerned, to enter an Honours programme and to attend additional 1000 or 2000 level modules worth up to 40 credits in the first year of the Honours programme. No student may be permitted to proceed to the final year of the Honours programme who has gained fewer than 240 credits in 1000 and 2000 level modules.

4. The degree of MTheol (Honours) may be awarded to a student who has gained not less than 480 credits, of which:-
 - (a) at least 240 credits have been gained from 1000 and 2000 level modules, including modules specified as part of the approved 1000 and 2000 level module requirements;
 - (b) at least 80 credits have been gained in 2000 level modules;
 - (c) at least 60 credits have been gained from 3000 level modules in Divinity as part of an approved Honours programme;
 - (d) at least 120 credits have been gained from 4000 level modules in Divinity as part of an approved Honours programme;
 - (e) a total of 240 credits have been gained from 3000 and 4000 level modules.

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D. Honours Degree (B.D.)

5. A student who has gained at least 240 credits, including those modules specified as part of the approved 1000 and 2000 level module requirements and including at least 80 credits in 2000 level modules, may be admitted to an Honours Degree programme.
6. General Regulation 26 notwithstanding, the degree of B.D. (Honours) may be awarded to a student holding a degree from a British university or an equivalent qualification who over a minimum period of three years has gained not less than 390 credits, of which:-
 - (a) at least 240 credits have been gained from 1000 and 2000 level modules specified as part of the approved module requirements;
 - (b) at least 80 credits have been gained in 2000 level modules;
 - (c) at least 30 credits have been gained from 3000 level modules in Divinity as part of an approved Honours programme;
 - (d) at least 90 credits have been gained from 4000 level modules in Divinity as part of an approved Honours programme;
 - (e) a total of 150 credits have been gained from 3000 and 4000 level modules.

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IV SCIENCE REGULATIONS

A. Faculty Entrance Requirement

1. In addition to the General Entrance Requirements, prior to admission to study in the Faculty, a student must have gained SQA Standard Grade (1 or 2), or GCSE (A or B) or equivalent in English and Mathematics along with at least two Highers (H) OR at least one GCE A level, or equivalent in the following subjects: Biology, Chemistry, Computing Science, Geography (or Geology), Mathematics, Physics, Psychology.

International Baccalaureate: At least Standard 1B Level in: Mathematics and English. A Higher IB Level pass is required in at least two of the following subjects: Biology, Chemistry, Computer Science, Geography (or Geology), Mathematics, Physics, Psychology.

The Dean may grant exemption from these conditions.

B. Subjects

2. The following modules shall be recognised as contributing to the award of any B.Sc. (except Medical), M.Sci., M.Chem., M.Math., M.Phys., B.Eng. or M.Eng. degree:-

All modules from the Schools of

- (i) Biology; Chemistry; Computer Science; Geography & Geoscience with prefix GG or GS; Mathematics & Statistics; Physics & Astronomy; Psychology;
- (ii) Economics & Finance; Geography & Geoscience with prefix GE; Interdisciplinary Modules with prefix ID; Philosophy & Anthropological Studies within the programmes for Logic and Philosophy of Science; and Management modules with prefix MN; Sustainable Development modules with prefix SD;
- (iii) Modern Languages as specified in the requirements of a recognised 'With Language' or 'With Linguistics' B.Sc. degree;
- (iv) any other module specified in the requirements of a recognised Honours degree programme (3000, 4000 and 5000 level) in the Faculty;
- (v) any other module qualifying for a degree in another Faculty.

C. General Degree

3. The degree of B.Sc. (General) in Pure Science may be awarded to a student who has gained not less than 360 credits, of which:-
 - (a) at least 240 have been gained in modules identified by Science Regulation 2 (i) - (iii), of which at least 180 have been gained in Science Regulation 2(i)-(ii);
 - (b) at least 40 credits have been gained in modules identified by Science Regulation 2 (i);
 - (c) at least 80 credits have been gained in 2000 level modules;
 - (d) at least 60 in 3000 level modules.

Undergraduate Resolutions and Regulations: Session 2011-12

D. Honours

4. A student who has gained at least 240 credits, of which:-
 - (a) at least 80 credits have been gained at 2000 level;
 - (b) at least 40 have been gained in modules identified by Science Regulation 2 (i);
 - (c) at least 160 have been gained in modules identified by Science Regulation 2 (i) - (iii)

may be admitted to an Honours B.Sc. Degree programme.

A student having satisfied (a) and (b) but gained less than 240 credits may be permitted, with the permission of the Head(s) of School concerned, to enter an Honours programme and to attend additional 1000 or 2000 level modules worth up to 40 credits. No student may be permitted to proceed to the final year of the Honours programme who has gained fewer than 240 credits in 1000 and 2000 level modules in accordance with (a), (b) and (c).

5. Admission to the final two semesters of an Honours programme shall be at the discretion of the Board of Examiners.
6. The subjects recognised for the Honours Degree programmes are listed in Appendix Degree List.

E. Master in Science Master in Chemistry, Master in Engineering, Master in Mathematics and Master in Physics

7. A student who has gained at least 240 credits, of which:-
 - (a) at least 80 credits have been gained at 2000 level;
 - (b) at least 200 have been gained in subjects listed in Science Regulation 2 (i) - (iii) above;
 - (c) at least 40 have been gained in subjects listed in Science Regulation 2 (i) above may be admitted to an M.Sci. or M.Chem or M.Phys. or M.Math. or M.Eng. degree programme.
8. A candidate for the M.Sci., M.Chem., M.Math., M.Phys. or M.Eng. degree who in the opinion of the examiners fails to reach a sufficient level of attainment in the assessment for the modules taken in any year may be required to transfer to the corresponding Honours B.Sc. or B.Eng. programme.
9. The subjects recognised for the M.Sci. and M.Chem. and M.Phys. and M.Math. and M.Eng. degree programmes are listed in Appendix Degree List.
10. A candidate for the M.Sci. ,M.Chem. M.Math., M.Phys or M.Eng. degree may transfer to the corresponding Honours B.Sc or B.Eng. programme with the permission of the Dean.

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V. MEDICAL REGULATIONS

A. Faculty Entrance Requirements

1. In addition to the General Entrance Requirements, candidates for admission should satisfy one of the following:
 - (a) Scottish Qualifications Authority (SQA) Higher examinations. At least AAABB including Chemistry and at least one of Biology, Mathematics or Physics. If Biology or Mathematics has not been passed at Higher grade, each must normally have been passed at Standard grade Credit Level (grade 1 or 2) or Intermediate 2 (grade A or B). A pass must also be offered in Standard grade English at Credit Level (grade 1 or 2) or Intermediate 2 (grade A or B).
 - (b) General Certificate of Education (GCE) examinations. AAB at Advanced (A2) level, including Chemistry and at least one other science. If Biology or Mathematics is not offered at Advanced (A2) or AS Level, each must normally have been passed at GCSE grade B or better. A pass must also be offered in GCSE English at grade B or better.
 - (c) Passes in other examinations at such levels and in such subjects as the Dean may accept as an equivalent qualification to those mentioned in (a) or (b).

B. Honours

2. A student who has gained 240 credits, of which at least 120 credits have been gained at 2000 level in approved modules in Medicine and 120 credits of advanced standing or 120 credits in such subjects as the Dean may accept as an equivalent qualification, may be admitted to the Honours B.Sc. Degree programme in Medicine.

C. Honours Degree

3. To qualify for the Honours degree, candidates must satisfy the following requirements:–
 - (a) They must be admitted to the Faculty of Medicine.
 - (b) They must, during not less than three years and not more than four years following the date of first matriculation attend the modules and pass or be exempted from the corresponding module examinations, for the approved Programme in Medicine.

D. General Degree

4. The degree of B.Sc. (General) in Medicine may be awarded to a student who has gained not less than 360 credits, of which:–
 - (a) at least 240 must have been gained in approved modules in Medicine and;
 - (b) no less than 80 may have been modules from the Schools of Biology, Chemistry or Psychology;
 - (c) up to 40 credits may have been gained from modules at 1000 or 2000 level in the Faculties of Arts or Divinity;
 - (d) at least 80 credits must have been gained in 2000 level modules;
 - (e) at least 60 credits must have been gained in 3000 level modules.

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E. Termination of Studies

5. The following regulations concerning Termination of Studies for Medical students shall apply:-

Every student:-

- (a) must have gained 60 credits at 2000 level in approved modules in Medicine after two semesters of study at that level.
- (b) must have gained 120 credits at 2000 level in approved modules in Medicine after four semesters of study.
- (c) must have gained 120 credits at 3000 level in approved modules in Medicine after six semesters of study.
- (d) Every student must complete all modules for the Honours degree in Medicine within four years.

Students who fail to meet the above requirements shall have their studies terminated and shall cease attending modules.

Students whose studies have been terminated have the right to request permission to continue their studies in the following semester. They may apply to the Dean who shall determine either that the students' studies be terminated or the conditions under which students may be permitted to continue their studies.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Ancient History	MA Hons		Title	Classics	
Ancient History and Archaeology	MA Hons		Title	Classics	
Ancient History and Art History	MA Hons		Title	Classics	Art History
Ancient History and Biblical Studies	MA Hons		Title	Classics	Divinity
Ancient History and Comparative Literature	MA Hons		Title	Classics	Modern Languages
Ancient History and Economics	MA Hons		Title	Classics	Econ & Finance
Ancient History and Film Studies	MA Hons		Title	Classics	Phil, Anth & Film
Ancient History and French ^M	MA Hons	WIYA	Title	Classics	Modern Languages
Ancient History and German ^M	MA Hons	WIYA	Title	Classics	Modern Languages
Ancient History and Greek	MA Hons		Title	Classics	Classics
Ancient History and Italian ^M	MA Hons	WIYA	Title	Classics	Modern Languages
Ancient History and Latin	MA Hons		Title	Classics	Classics
Ancient History and Mathematics	MA Hons		Title	Classics	Maths & Statistics
<i>Ancient History and Modern Languages (two languages) - see Modern Languages</i>					
Ancient History and Philosophy	MA Hons		Title	Classics	Phil, Anth & Film
Ancient History and Social Anthropology	MA Hons		Title	Classics	Phil, Anth & Film
Ancient History and Spanish ^M	MA Hons	WIYA	Title	Classics	Modern Languages
Applied Economics	MA Hons		Title	Econ & Finance	
Applied Economics	BSc Hons		Title	Econ & Finance	
Applied Mathematics	MMath Hons		Title	Maths & Statistics	
Arabic and Comparative Literature and French	MA Hons	WIYA	Title	Modern Languages	
Arabic and Comparative Literature and German	MA Hons	WIYA	Title	Modern Languages	
Arabic and Comparative Literature and Italian	MA Hons	WIYA	Title	Modern Languages	
Arabic and Comparative Literature and Russian	MA Hons	WIYA	Title	Modern Languages	
Arabic and Comparative Literature and Spanish	MA Hons	WIYA	Title	Modern Languages	
Arabic and French	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>Arabic and French - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
Arabic and French (WIYA)	MA Hons				
		WIYA	Title	Modern Languages	Modern Languages
Arabic and French and German	MA Hons	WIYA	Title	Modern Languages	
Arabic and French and Italian	MA Hons	WIYA	Title	Modern Languages	
Arabic and French and Russian	MA Hons	WIYA	Title	Modern Languages	
Arabic and French and Spanish	MA Hons	WIYA	Title	Modern Languages	

Also WIYA - means the degree is available with or without an Integrated Year Abroad

Title - means this is the official title which will be on all University records and documents. If the field is blank, the name is descriptive only and will not appear as the title of a degree on transcripts, diplomas etc.

^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

^G – This combination is only available to non-beginners in German due to a timetable clash.

^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Arabic and German	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>Arabic and German - and a third subject (Ancient History, English, International Relations, Latin, Management) – see under Modern Languages</i>					
Arabic and German and Italian	MA Hons	WIYA	Title	Modern Languages	
Arabic and German and Russian	MA Hons	WIYA	Title	Modern Languages	
Arabic and German and Spanish	MA Hons	WIYA	Title	Modern Languages	
Arabic and Italian and Russian	MA Hons	WIYA	Title	Modern Languages	
Arabic and Italian and Spanish	MA Hons	WIYA	Title	Modern Languages	
Arabic and Russian and Spanish	MA Hons	WIYA	Title	Modern Languages	
Arabic and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Art History	MA Hons		Title	Art History	
<i>Art History and Ancient History</i>	<i>MA Hons</i>			<i>Art History</i>	<i>Classics</i>
Art History and Biblical Studies	MA Hons		Title	Art History	Divinity
Art History and Classical Studies	MA Hons		Title	Art History	Classics
Art History and Comparative Literature	MA Hons		Title	Art History	Modern Languages
Art History and English	MA Hons		Title	Art History	English
Art History and Film Studies	MA Hons		Title	Art History	Phil, Anth & Film
Art History and French	MA Hons	WIYA	Title	Art History	Modern Languages
Art History and Geography	MA Hons		Title	Art History	Geog & Geosciences
Art History and German	MA Hons	WIYA	Title	Art History	Modern Languages
Art History and Greek	MA Hons		Title	Art History	Classics
Art History and Hebrew	MA Hons		Title	Art History	Divinity
Art History and International Relations	MA Hons		Title	Art History	Int Relations
Art History and Italian	MA Hons	WIYA	Title	Art History	Modern Languages
Art History and Management	MA Hons		Title	Art History	Management
Art History and Mathematics	MA Hons		Title	Art History	Maths & Statistics
Art History and Mediaeval History	MA Hons		Title	Art History	History
Art History and Middle East Studies	MA Hons		Title	Art History	History
Art History and Modern History	MA Hons		Title	Art History	History
Art History and Philosophy	MA Hons		Title	Art History	Phil, Anth & Film
Art History and Psychology	MA Hons		Title	Art History	Psych & Neuroscience
Art History and Russian	MA Hons	WIYA	Title	Art History	Modern Languages
Art History and Social Anthropology	MA Hons		Title	Art History	Phil, Anth & Film
Art History and Spanish	MA Hons	WIYA	Title	Art History	Modern Languages
<i>Arts (General Degree)</i>	<i>MA</i>			<i>Faculty of Arts</i>	
Astrophysics	BSc Hons		Title	Physics & Astronomy	
Astrophysics	MPhys Hons		Title	Physics & Astronomy	
Bachelor of Divinity	BD Hons		Title	Divinity	
Behavioural Biology	BSc Hons		Title	Biology	

Also WIYA - means the degree is available with or without an Integrated Year Abroad

Title - means this is the official title which will be on all University records and documents. If the field is blank, the name is descriptive only and will not appear as the title of a degree on transcripts, diplomas etc.

^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

^G – This combination is only available to non-beginners in German due to a timetable clash.

^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Biblical Studies	MA Hons		Title	Divinity	
<i>Biblical Studies and Ancient History</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Classics</i>
<i>Biblical Studies and Art History</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>History</i>
Biblical Studies and Classical Studies ^X	MA Hons		Title	Divinity	Classics
Biblical Studies and Comparative Literature	MA Hons		Title	Divinity	Modern Languages
Biblical Studies and Economics	MA Hons		Title	Divinity	Econ & Finance
Biblical Studies and English	MA Hons		Title	Divinity	English
Biblical Studies and Film Studies	MA Hons		Title	Divinity	Phil, Anth & Film
Biblical Studies and French	MA Hons	WIYA	Title	Divinity	Modern Languages
Biblical Studies and German ^T	MA Hons	WIYA	Title	Divinity	Modern Languages
Biblical Studies and Greek	MA Hons		Title	Divinity	Classics
Biblical Studies and Hebrew	MA Hons		Title	Divinity	Divinity
Biblical Studies and International Relations	MA Hons		Title	Divinity	Int Relations
Biblical Studies and Mathematics	MA Hons		Title	Divinity	Maths & Statistics
Biblical Studies and Mediaeval History	MA Hons		Title	Divinity	History
Biblical Studies and Philosophy	MA Hons		Title	Divinity	Phil, Anth & Film
Biochemistry	BSc Hons		Title	Chemistry	
Biology	BSc Hons		Title	Biology	
Biology and Economics	BSc Hons		Title	Biology	Econ & Finance
Biology and Geology	BSc Hons		Title	Biology	Geog & Geosciences
Biology and Logic and Philosophy of Science	BSc Hons		Title	Biology	Phil, Anth & Film
Biology and Mathematics	BSc Hons		Title	Biology	Maths & Statistics
Biology and Psychology	BSc Hons		Title	Biology	Psych & Neuroscience
Biology and Statistics	BSc Hons		Title	Biology	Maths & Statistics
Biology with Arabic	BSc Hons		Title	Biology	Modern Languages
Biology with French	BSc Hons	WIYA	Title	Biology	Modern Languages
Biomolecular Science	BSc Hons		Title	Biology	
BSc General	BSc Gen			Faculty of Science	
Cell Biology	BSc Hons		Title	Biology	
Chemical Sciences	BSc Hons		Title	Chemistry	
Chemistry	BSc Hons		Title	Chemistry	
Chemistry	MChem Hons		Title	Chemistry	
Chemistry and Geology	BSc Hons		Title	Chemistry	Geog & Geosciences
Chemistry and Mathematics	BSc Hons		Title	Chemistry	Maths & Statistics
Chemistry and Physics	MSci		Title	Chemistry	Physics & Astronomy
Chemistry with External Placement	MChem Hons		Title	Chemistry	
Chemistry with French	BSc Hons	WIYA	Title	Chemistry	Modern Languages

Also WIYA - means the degree is available with or without an Integrated Year Abroad

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^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

^G – This combination is only available to non-beginners in German due to a timetable clash.

^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Chemistry with French	MChem Hons		Title	Chemistry	Modern Languages
Chemistry with French and External Placement	MChem Hons		Title	Chemistry	Modern Languages
Chemistry with Mathematics	MChem Hons		Title	Chemistry	Maths & Statistics
Chemistry with Medicinal Chemistry	BSc Hons		Title	Chemistry	
Chemistry with Medicinal Chemistry	MChem Hons		Title	Chemistry	
Chemistry with Medicinal Chemistry with External Placement	MChem Hons		Title	Chemistry	
Classical Studies	MA Hons		Title	Classics	
<i>Classical Studies and Art History</i>	<i>MA Hons</i>			<i>Classics</i>	<i>Art History</i>
<i>Classical Studies and Biblical Studies^X</i>	<i>MA Hons</i>			<i>Classics</i>	<i>Divinity</i>
<i>Classical Studies and Comparative Literature</i>	<i>MA Hons</i>			<i>Classics</i>	<i>Modern Languages</i>
Classical Studies and English	MA Hons		Title	Classics	English
Classical Studies and Film Studies	MA Hons		Title	Classics	Phil, Anth & Film
Classical Studies and French^M	MA Hons	WIYA	Title	Classics	Modern Languages
Classical Studies and Geography	MA Hons		Title	Classics	Geog & Geosciences
Classical Studies and Greek	MA Hons		Title	Classics	Classics
Classical Studies and International Relations	MA Hons		Title	Classics	Int Relations
Classical Studies and Italian^M	MA Hons	WIYA	Title	Classics	Modern Languages
Classical Studies and Latin	MA Hons		Title	Classics	Classics
Classical Studies and Mathematics	MA Hons		Title	Classics	Maths & Statistics
Classical Studies and Mediaeval History	MA Hons		Title	Classics	History
Classical Studies and Middle East Studies	MA Hons		Title	Classics	History
Classical Studies and Modern History	MA Hons		Title	Classics	History
Classical Studies and New Testament	MA Hons		Title	Classics	Divinity
Classical Studies and Philosophy	MA Hons		Title	Classics	Phil, Anth & Film
<i>Classical Studies and Russian and another modern language – for options available, see under Modern Languages</i>					
Classical Studies and Scottish History	MA Hons		Title	Classics	History
Classical Studies and Social Anthropology	MA Hons		Title	Classics	Phil, Anth & Film
<i>Classical Studies and Spanish and another modern language – for options available, see under Modern Languages</i>					
Classical Studies and Theological Studies	MA Hons		Title	Classics	Divinity
Classics	MA Hons		Title	Classics	
<i>Classics and Comparative Literature</i>	<i>MA Hons</i>			<i>Classics</i>	<i>Modern Languages</i>
Classics and English	MA Hons		Title	Classics	English

Also WIYA - means the degree is available with or without an Integrated Year Abroad

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^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

^G – This combination is only available to non-beginners in German due to a timetable clash.

^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Classics and French	MA Hons	WIYA	Title	Classics	Modern Languages
Classics and Italian	MA Hons	WIYA	Title	Classics	Modern Languages
Classics and Management	MA Hons		Title	Classics	Management
Classics and Philosophy	MA Hons		Title	Classics	Phil, Anth & Film
Classics and Social Anthropology	MA Hons		Title	Classics	Phil, Anth & Film
Classics and Spanish	MA Hons	WIYA	Title	Classics	Modern Languages
<i>Comparative Literature and Ancient History</i>	<i>MA Hons</i>			<i>Modern Languages</i>	<i>Classics</i>
<i>Comparative Literature and Arabic and another modern language - see under Arabic</i>					
<i>Comparative Literature and Art History</i>	<i>MA Hons</i>			<i>Modern Languages</i>	<i>Art History</i>
<i>Comparative Literature and Biblical Studies</i>	<i>MA Hons</i>			<i>Modern Languages</i>	<i>Divinity</i>
Comparative Literature and Classical Studies	MA Hons		Title	Modern Languages	Classics
Comparative Literature and Classics	MA Hons		Title	Modern Languages	Classics
Comparative Literature and English	MA Hons		Title	Modern Languages	English
Comparative Literature and Film Studies	MA Hons		Title	Modern Languages	Phil, Anth & Film
Comparative Literature and French	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Comparative Literature and French and German	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and French and Italian	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and French and Russian	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and French and Spanish	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and Geography	MA Hons		Title	Modern Languages	Geog & Geosciences
Comparative Literature and German	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Comparative Literature and German and Italian	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and German and Russian	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and German and Spanish	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and Greek	MA Hons		Title	Modern Languages	Classics
Comparative Literature and Hebrew	MA Hons		Title	Modern Languages	Divinity
Comparative Literature and International Relations	MA Hons		Title	Modern Languages	Int Relations
Comparative Literature and Italian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Comparative Literature and Italian and Russian	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and Italian and Spanish	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and Latin	MA Hons		Title	Modern Languages	Classics
Comparative Literature and	MA Hons		Title	Modern Languages	Management

Also WIYA - means the degree is available with or without an Integrated Year Abroad

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- ^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.
- ^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.
- ^G – This combination is only available to non-beginners in German due to a timetable clash.
- ^M – This combination is also available including a second language, see under Modern Languages.
- ^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Management					
Comparative Literature and Mediaeval History	MA Hons		Title	Modern Languages	History
Comparative Literature and Modern History	MA Hons		Title	Modern Languages	History
Comparative Literature and Philosophy	MA Hons		Title	Modern Languages	Phil, Anth & Film
Comparative Literature and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Comparative Literature and Russian and Spanish	MA Hons	WIYA	Title	Modern Languages	
Comparative Literature and Social Anthropology	MA Hons		Title	Modern Languages	Phil, Anth & Film
Comparative Literature and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Computer Science	BSc Hons		Title	Computer Science	
Computer Science	MSci Hons		Title	Computer Science	
Computer Science and Economics	BSc Hons		Title	Computer Science	Econ & Finance
Computer Science and Logic and Philosophy of Science	BSc Hons		Title	Computer Science	Phil, Anth & Film
Computer Science and Management	BSc Hons		Title	Computer Science	Management
Computer Science and Management Science	BSc Hons		Title	Computer Science	Management
Computer Science and Mathematics	BSc Hons		Title	Computer Science	Maths & Statistics
Computer Science and Physics	BSc Hons		Title	Computer Science	Physics & Astronomy
Computer Science and Psychology	BSc Hons		Title	Computer Science	Psych & Neuroscience
Computer Science and Statistics	BSc Hons		Title	Computer Science	Maths & Statistics
Divinity	BD Hons		Title	Divinity	
Earth Sciences	MGeol Hons		Title	Geog & Geosciences	
Ecology and Conservation	BSc Hons		Title	Biology	
Economics	BA (Int. Hons)		Title	Economics & Finance	
Economics	MA Hons		Title	Economics & Finance	
Economics	BSc Hons		Title	Economics & Finance	
<i>Economics and Ancient History</i>	MA Hons			<i>Economics & Finance</i>	<i>Classics</i>
<i>Economics and Biblical Studies</i>	MA Hons			<i>Economics & Finance</i>	<i>Divinity</i>
<i>Economics and Biology</i>	BSc Hons			<i>Economics & Finance</i>	<i>Biology</i>
<i>Economics and Computer Science</i>	BSc Hons			<i>Economics & Finance</i>	<i>Computer Science</i>
Economics and English	MA Hons		Title	Economics & Finance	English
Economics and Film Studies	MA Hons		Title	Economics & Finance	Phil, Anth & Film
Economics and Geography	MA Hons		Title	Economics & Finance	Geog & Geosciences

Also WIYA - means the degree is available with or without an Integrated Year Abroad

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^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

^G – This combination is only available to non-beginners in German due to a timetable clash.

^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Economics and German	MA Hons			Economics & Finance	Modern Languages
Economics and International Relations	MA Hons			Economics & Finance	Int Relations
Economics and Italian	MA Hons			Economics & Finance	Modern Languages
Economics and Management	BSc Hons			Economics & Finance	Management
Economics and Management	MA Hons			Economics & Finance	Management
Economics and Management Science	BSc Hons			Economics & Finance	Management
Economics and Mathematics	MA Hons			Economics & Finance	Maths & Statistics
Economics and Mathematics	BSc Hons			Economics & Finance	Maths & Statistics
Economics and Mediaeval History	MA Hons			Economics & Finance	History
Economics and Middle East Studies	MA Hons			Economics & Finance	History
Economics and Modern History	MA Hons			Economics & Finance	History
Economics and Philosophy	MA Hons			Economics & Finance	Phil, Anth & Film
Economics and Psychology	BSc Hons			Economics & Finance	Psych & Neuroscience
Economics and Psychology	MA Hons			Economics & Finance	Psych & Neuroscience
Economics and Russian	MA Hons			Economics & Finance	Modern Languages
Economics and Social Anthropology	MA Hons			Economics & Finance	Phil, Anth & Film
Economics and Spanish	MA Hons			Economics & Finance	Modern Languages
Economics and Statistics	MA Hons			Economics & Finance	Maths & Statistics
Economics and Statistics	BSc Hons			Economics & Finance	Maths & Statistics
Economics with German	MA Hons			Economics & Finance	Modern Languages
Economics with Russian	MA Hons			Economics & Finance	Modern Languages
Economics with Social Anthropology	MA Hons			Economics & Finance	Phil, Anth & Film
Economics with Spanish	MA Hons			Economics & Finance	Modern Languages
English	BA (Int. Hons)			English	
English	MA Hons			English	

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E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

G – This combination is only available to non-beginners in German due to a timetable clash.

M – This combination is also available including a second language, see under Modern Languages.

X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>English and Art History</i>	MA Hons			English	Art History
<i>English and Biblical Studies</i>	MA Hons			English	Divinity
<i>English and Classical Studies</i>	MA Hons			English	Classics
<i>English and Classics</i>	MA Hons			English	Classics
<i>English and Comparative Literature</i>	MA Hons			English	Modern Languages
<i>English and Economics</i>	MA Hons			English	Econ & Finance
English and Film Studies	MA Hons		Title	English	Phil, Anth & Film
English and French^M	MA Hons	WIYA	Title	English	Modern Languages
English and German^M	MA Hons	WIYA	Title	English	Modern Languages
English and Greek	MA Hons		Title	English	Classics
English and Hebrew	MA Hons		Title	English	Divinity
English and Italian^M	MA Hons	WIYA	Title	English	Modern Languages
English and Latin	MA Hons		Title	English	Classics
English and Management	MA Hons		Title	English	Management
English and Mediaeval History	MA Hons		Title	English	History
English and Middle East Studies	MA Hons		Title	English	History
English and Modern History	MA Hons		Title	English	History
<i>English and Modern Languages (two languages) - see under Modern Languages</i>					
English and Philosophy	MA Hons		Title	English	Phil, Anth & Film
English and Psychology	MA Hons		Title	English	Psych & Neuroscience
English and Russian^{E M}	MA Hons	WIYA	Title	English	Modern Languages
English and Scottish History	MA Hons		Title	English	History
English and Social Anthropology	MA Hons		Title	English	Phil, Anth & Film
English and Spanish^M	MA Hons	WIYA	Title	English	Modern Languages
English and Theological Studies	MA Hons		Title	English	Divinity
Environmental Biology and Geography	BSc Hons		Title	Biology	Geog & Geosciences
Environmental Geoscience	BSc Hons		Title	Biology	
Evolutionary Biology	BSc Hons		Title	Biology	
<i>Film Studies and Ancient History</i>	MA Hons			Phil, Anth & Film	Classics
<i>Film Studies and Art History</i>	MA Hons			Phil, Anth & Film	Art History
<i>Film Studies and Biblical Studies</i>	MA Hons			Phil, Anth & Film	Divinity
<i>Film Studies and Classical Studies</i>	MA Hons			Phil, Anth & Film	Classics
<i>Film Studies and Comparative Literature</i>	MA Hons			Phil, Anth & Film	Modern Languages
<i>Film Studies and Economics</i>	MA Hons			Phil, Anth & Film	Econ & Finance
<i>Film Studies and English</i>	MA Hons			Phil, Anth & Film	English
Film Studies and French	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Film Studies and Geography	MA Hons		Title	Phil, Anth & Film	Geog & Geosciences
Film Studies and German	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Film Studies and International Relations	MA Hons		Title	Phil, Anth & Film	Int Relations
Film Studies and Italian	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Film Studies and Modern History	MA Hons		Title	Phil, Anth & Film	History
Film Studies and Philosophy	MA Hons		Title	Phil, Anth & Film	Phil, Anth & Film
Film Studies and Psychology	MA Hons		Title	Phil, Anth & Film	Psych & Neuroscience
Film Studies and Russian	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Film Studies and Scottish History	MA Hons		Title	Phil, Anth & Film	History
Film Studies and Social Anthropology	MA Hons		Title	Phil, Anth & Film	Phil, Anth & Film
Film Studies and Spanish	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Film Studies and Theological Studies	MA Hons		Title	Phil, Anth & Film	Divinity
Financial Economics	BSc Hons		Title	Economics & Finance	
Financial Economics (Arts)	MA Hons		Title	Economics & Finance	
French	MA Hons	WIYA	Title	Modern Languages	
<i>French and German - and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>French and Ancient History^M</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>French and Arabic and another modern language (see under Arabic)</i>					
<i>French and Art History</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Art History</i>
<i>French and Biblical Studies</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Divinity</i>
<i>French and Classical Studies^M</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Classics</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>French and Comparative Literature and another modern language (see under Comparative Literature)</i>					
<i>French and English^M</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>English</i>
<i>French and Film Studies</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Phil, Anth & Film</i>
French and Geography	MA Hons	WIYA	Title	Modern Languages	Geog & Geosciences
French and German	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>French and German and Arabic</i>					
French and German and Italian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
French and German and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
French and German and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
French and Greek^M	MA Hons	WIYA	Title	Modern Languages	Classics
French and Hebrew	MA Hons	WIYA	Title	Modern Languages	Divinity
French and International Relations^M	MA Hons	WIYA	Title	Modern Languages	Int Relations
French and Italian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>French and Italian - and a third subject (Ancient History, Classical Studies, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>French and Italian and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Italian and Comparative</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Literature</i>					
<i>French and Italian and German</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>English</i>
French and Italian and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
French and Italian and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
French and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
French and Management^M	MA Hons	WIYA	Title	Modern Languages	Management
French and Mediaeval History	MA Hons	WIYA	Title	Modern Languages	History
French and Modern History	MA Hons	WIYA	Title	Modern Languages	History
French and Philosophy	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
French and Psychology	MA Hons	WIYA	Title	Modern Languages	Psych & Neuroscience
French and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>French and Russian - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>French and Russian and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Russian and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>French and Russian and German</i>					
<i>French and Russian and Italian</i>					
French and Russian and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
French and Social Anthropology	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
French and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>French and Spanish - and a third subject (Ancient History, Classical Studies, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>French and Spanish and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Spanish and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>French and Spanish and German</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Spanish and Italian</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>French and Spanish and Russian</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
French and Theological Studies	MA Hons	WIYA	Title	Modern Languages	Divinity
Gateway to Physics and Engineering			Title		
<i>General Degree of BSc</i>	<i>BSc Gen</i>			<i>Faculty of Science</i>	
<i>General Degree of MA</i>	<i>BSc Gen</i>			<i>Faculty of Science</i>	
Geography	MA Hons		Title	Geog & Geosciences	
Geography	BSc Hons		Title	Geog & Geosciences	
<i>Geography and Art History</i>	<i>MA Hons</i>			<i>Geog & Geosciences</i>	
<i>Geography and Classical Studies</i>	<i>MA Hons</i>			<i>Geog & Geosciences</i>	<i>Classics</i>
<i>Geography and Comparative Literature</i>	<i>MA Hons</i>			<i>Geog & Geosciences</i>	<i>Modern Languages</i>
<i>Geography and Economics</i>	<i>MA Hons</i>			<i>Geog & Geosciences</i>	<i>Econ & Finance</i>
<i>Geography and Environmental Biology</i>	<i>BSc Hons</i>			<i>Geog & Geosciences</i>	<i>Biology</i>
<i>Geography and Film Studies</i>	<i>MA Hons</i>			<i>Geog & Geosciences</i>	<i>Phil, Anth & Film</i>

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Geography and French</i>	<i>MA Hons</i>	WIYA		<i>Geog & Geosciences</i>	<i>Modern Languages</i>
Geography and Hebrew	MA Hons		Title	Geog & Geosciences	Divinity
Geography and International Relations	MA Hons		Title	Geog & Geosciences	Int Relations
Geography and Italian	MA Hons	WIYA	Title	Geog & Geosciences	Modern Languages
Geography and Management	MA Hons		Title	Geog & Geosciences	Management
Geography and Management	BSc Hons		Title	Geog & Geosciences	Management
Geography and Management Science	BSc Hons		Title	Geog & Geosciences	Management
Geography and Mathematics	BSc Hons		Title	Geog & Geosciences	Maths & Statistics
Geography and Mediaeval History	MA Hons		Title	Geog & Geosciences	History
Geography and Middle East Studies	MA Hons		Title	Geog & Geosciences	History
Geography and Modern History	MA Hons		Title	Geog & Geosciences	History
Geography and Philosophy	MA Hons		Title	Geog & Geosciences	Phil, Anth & Film
Geography and Psychology	MA Hons		Title	Geog & Geosciences	Psych & Neuroscience
Geography and Scottish History	MA Hons		Title	Geog & Geosciences	History
Geography and Social Anthropology	MA Hons		Title	Geog & Geosciences	Phil, Anth & Film
Geography and Spanish	MA Hons	WIYA	Title	Geog & Geosciences	Modern Languages
Geography and Statistics	BSc Hons		Title	Geog & Geosciences	Maths & Statistics
Geography and Theological Studies	MA Hons		Title	Geog & Geosciences	Divinity
Geography with Social Anthropology	MA Hons		Title	Geog & Geosciences	Phil, Anth & Film
Geography with Spanish	MA Hons		Title	Geog & Geosciences	Modern Languages
Geology	BSc Hons		Title	Geog & Geosciences	
<i>Geology and Biology</i>	<i>BSc Hons</i>			<i>Geog & Geosciences</i>	<i>Biology</i>
<i>Geology and Chemistry</i>	<i>BSc Hons</i>			<i>Geog & Geosciences</i>	<i>Chemistry</i>
German	MA Hons	WIYA	Title	Modern Languages	
<i>German and French - and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>German and Ancient History^M</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>German and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>German and Arabic and another modern language (see under Arabic)</i>					
<i>German and Art History</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Art History</i>
<i>German and Biblical Studies^T</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Divinity</i>
<i>German and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>German and Comparative Literature and another modern language (see under Comparative Literature)</i>					
<i>German and Economics</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Econ & Finance</i>
<i>German and English^M</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>English</i>
<i>German and Film Studies</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Phil, Anth & Film</i>
<i>German and French</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>German and French and another modern language (see under French)</i>					

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
German and International Relations^M	MA Hons	WIYA	Title	Modern Languages	Int Relations
German and Italian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>German and Italian - and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>German and Italian and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>German and Italian and French</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
German and Italian and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
German and Italian and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>German and Latin and another modern language – for options available, see under Modern Languages</i>					
German and Management^{G M}	MA Hons	WIYA	Title	Modern Languages	Management
German and Mathematics	MA Hons	WIYA	Title	Modern Languages	Maths & Statistics
German and Mediaeval History	MA Hons	WIYA	Title	Modern Languages	History
German and Middle East Studies	MA Hons	WIYA	Title	Modern Languages	History
German and Modern History	MA Hons	WIYA	Title	Modern Languages	History
German and New Testament	MA Hons	WIYA	Title	Modern Languages	Divinity
German and Philosophy	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
German and Psychology	MA Hons	WIYA	Title	Modern Languages	Psych & Neuroscience
German and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>German and Russian and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>German and Russian and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>German and Russian and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>German and Russian and French</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>English</i>
<i>German and Russian and International Relations</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Int Relations</i>
<i>German and Russian and Italian</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
German and Russian and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
German and Social Anthropology	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
German and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>German and Spanish and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>German and Spanish and Arabic</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>German and Spanish and Comparative Literature</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>German and Spanish and French</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>English</i>
<i>German and Spanish and Italian</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>German and Spanish and Russian</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	<i>Int Relations</i>
German and Theological Studies	MA Hons	WIYA	Title	Modern Languages	Divinity
Greek	MA Hons		Title	Classics	
<i>Greek and German and another modern language – for options available, see under Modern Languages</i>					

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Greek and Ancient History</i>	MA Hons			Classics	Classics
<i>Greek and Art History</i>	MA Hons			Classics	Art History
<i>Greek and Biblical Studies</i>	MA Hons			Classics	Divinity
<i>Greek and Classical Studies</i>	MA Hons			Classics	Classics
<i>Greek and Comparative Literature</i>	MA Hons			Classics	Modern Languages
<i>Greek and English</i>	MA Hons			Classics	English
<i>Greek and French^M</i>	MA Hons	WIYA		Classics	Modern Languages
Greek and Hebrew	MA Hons		Title	Classics	Divinity
Greek and Italian^M	MA Hons	WIYA	Title	Classics	Modern Languages
<i>Greek and Modern Languages (two languages) - see under Modern Languages</i>					
Greek and New Testament	MA Hons		Title	Classics	Divinity
Greek and Philosophy	MA Hons		Title	Classics	Phil, Anth & Film
Greek and Social Anthropology	MA Hons		Title	Classics	Phil, Anth & Film
Greek and Spanish^M	MA Hons	WIYA	Title	Classics	Modern Languages
<i>Hebrew and Art History</i>	MA Hons			Divinity	Art History
<i>Hebrew and Biblical Studies</i>	MA Hons			Divinity	Divinity
<i>Hebrew and Comparative Literature</i>	MA Hons			Divinity	Modern Languages
<i>Hebrew and English</i>	MA Hons			Divinity	English
<i>Hebrew and French</i>	MA Hons	WIYA		Divinity	Modern Languages
<i>Hebrew and Geography</i>	MA Hons			Divinity	Geog & Geosciences
<i>Hebrew and Greek</i>	MA Hons			Divinity	Classics
Hebrew and Latin	MA Hons		Title	Divinity	Classics
Hebrew and Mathematics	MA Hons		Title	Divinity	Maths & Statistics
Hebrew and Middle East Studies	MA Hons		Title	Divinity	History
Hebrew and New Testament	MA Hons		Title	Divinity	Divinity
Hebrew and Russian	MA Hons	WIYA	Title	Divinity	Modern Languages
History	BA (Int. Hons)		Title	History	
History	MA Hons		Title	History	
<i>History – see also alphabetically under Ancient History, Mediaeval History, Middle East Studies, Modern History and Scottish History</i>					
International Relations	BA (Int. Hons)		Title	History	
International Relations	MA Hons		Title	Int Relations	
<i>International Relations and Art History</i>	MA Hons			Int Relations	Art History
<i>International Relations and Biblical Studies</i>	MA Hons			Int Relations	Divinity
<i>International Relations and Classical Studies</i>	MA Hons			Int Relations	Classics
<i>International Relations and Comparative Literature</i>	MA Hons			Int Relations	Modern Languages
<i>International Relations and Economics</i>	MA Hons			Int Relations	Economics & Finance

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>International Relations and Film Studies</i>	MA Hons			<i>Int Relations</i>	<i>Phil, Anth & Film</i>
<i>International Relations and French^M</i>	MA Hons	WIYA		<i>Int Relations</i>	<i>Modern Languages</i>
<i>International Relations and Geography</i>	MA Hons			<i>Int Relations</i>	<i>Geog & Geosciences</i>
<i>International Relations and German^M</i>	MA Hons	WIYA		<i>Int Relations</i>	<i>Modern Languages</i>
International Relations and Italian^M	MA Hons		Title	Int Relations	
International Relations and Management	MA Hons		Title	Int Relations	Management
International Relations and Mathematics	MA Hons		Title	Int Relations	Maths & Statistics
International Relations and Mediaeval History^T	MA Hons		Title	Int Relations	History
International Relations and Middle East Studies	MA Hons		Title	Int Relations	History
International Relations and Modern History	MA Hons		Title	Int Relations	History
<i>International Relations and Modern Languages (two languages) - see under Modern Languages</i>	MA Hons	WIYA		<i>Int Relations</i>	<i>Modern Languages</i>
International Relations and Philosophy	MA Hons		Title	Int Relations	Phil, Anth & Film
International Relations and Psychology	MA Hons		Title	Int Relations	Psych & Neuroscience
International Relations and Russian^M	MA Hons	WIYA	Title	Int Relations	Modern Languages
International Relations and Scottish History	MA Hons		Title	Int Relations	History
International Relations and Social Anthropology	MA Hons		Title	Int Relations	Phil, Anth & Film
International Relations and Spanish^M	MA Hons	WIYA	Title	Int Relations	Modern Languages
International Relations and Theological Studies^T	MA Hons		Title	Int Relations	Divinity
Internet Computer Science	BSc Hons		Title	Computer Science	
Italian	MA Hons	WIYA	Title	Modern Languages	
<i>Italian and Ancient History^M</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>Italian and Arabic</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>Italian and Arabic and another modern language - see under Arabic</i>					
<i>Italian and Art History</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Art History</i>
<i>Italian and Classical Studies^M</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>Italian and Classics</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Classics</i>
<i>Italian and Comparative Literature</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>
<i>Italian and Comparative Literature and another modern language - see under Comparative Literature</i>					
<i>Italian and Economics</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Economics & Finance</i>
<i>Italian and English^M</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>English</i>
<i>Italian and Film Studies</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Phil, Anth & Film</i>
<i>Italian and French</i>	MA Hons	WIYA		<i>Modern Languages</i>	<i>Modern Languages</i>

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Italian and French - and a third subject (Ancient History, Classical Studies, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Italian and French and another modern language -see under French</i>					
<i>Italian and Geography</i>	MA Hons	WIYA		Modern Languages	Geog & Geosciences
<i>Italian and German</i>	MA Hons	WIYA		Modern Languages	Modern Languages
<i>Italian and German - and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Italian and German and another modern language - see under German</i>					
<i>Italian and Greek^M</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Italian and International Relations^M</i>	MA Hons	WIYA		Modern Languages	Int Relations
Italian and Latin^M	MA Hons	WIYA	Title	Modern Languages	Classics
Italian and Management^M	MA Hons	WIYA	Title	Modern Languages	Management
Italian and Mathematics	MA Hons	WIYA	Title	Modern Languages	Maths & Statistics
Italian and Mediaeval History	MA Hons	WIYA	Title	Modern Languages	History
Italian and Middle East Studies	MA Hons	WIYA	Title	Modern Languages	History
Italian and Modern History	MA Hons	WIYA	Title	Modern Languages	History
Italian and Philosophy	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
Italian and Psychology	MA Hons	WIYA	Title	Modern Languages	Psych & Neuroscience
Italian and Russian	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>Italian and Russian - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Italian and Russian and Arabic</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Italian and Russian and French</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Italian and Russian and German</i>	MA Hons	WIYA		Modern Languages	Modern Languages
Italian and Russian and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
Italian and Scottish History	MA Hons	WIYA	Title	Modern Languages	History
Italian and Social Anthropology	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
Italian and Spanish	MA Hons	WIYA	Title	Modern Languages	Modern Languages
<i>Italian and Spanish - and a third subject (Ancient History, Classical Studies, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Italian and Spanish and Arabic</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Italian and Spanish and French</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Italian and Spanish and German</i>	MA Hons	WIYA		Modern Languages	Modern Languages
<i>Italian and Spanish and Russian</i>	MA Hons	WIYA		Modern Languages	Classics
Latin	MA Hons		Title	Classics	
<i>Latin and Ancient History</i>	MA Hons			Classics	Classics
<i>Latin and Classical Studies</i>	MA Hons			Classics	Classics
<i>Latin and Comparative Literature</i>	MA Hons			Classics	Modern Languages
<i>Latin and English</i>	MA Hons			Classics	English
<i>Latin and French^M</i>	MA Hons	WIYA		Classics	Modern Languages

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<i>Latin and German and another modern language – for options available, see under Modern Languages</i>					
<i>Latin and Hebrew</i>	MA Hons			Classics	Divinity
<i>Latin and Italian^M</i>	MA Hons	WIYA		Classics	Modern Languages
Latin and Mathematics	MA Hons		Title	Classics	Maths & Statistics
Latin and Mediaeval History	MA Hons		Title	Classics	History
Latin and Middle East Studies	MA Hons		Title	Classics	History
Latin and Modern History	MA Hons		Title	Classics	History
<i>Latin and Modern Languages (two languages) – many options available, see under Modern Languages</i>					
Latin and New Testament	MA Hons		Title	Classics	Divinity
Latin and Philosophy	MA Hons		Title	Classics	Phil, Anth & Film
Latin and Russian^M	MA Hons	WIYA	Title	Classics	Modern Languages
Latin and Social Anthropology	MA Hons		Title	Classics	Phil, Anth & Film
Latin and Spanish^M	MA Hons	WIYA	Title	Classics	Modern Languages
<i>Logic and Philosophy of Science and Biology</i>	BSc Hons			Phil, Anth & Film	Biology
<i>Logic and Philosophy of Science and Computer Science</i>	BSc Hons			Phil, Anth & Film	Computer Science
Logic and Philosophy of Science and Mathematics	BSc Hons		Title	Phil, Anth & Film	Maths & Statistics
Logic and Philosophy of Science and Physics	BSc Hons		Title	Phil, Anth & Film	Physics & Astronomy
Logic and Philosophy of Science and Statistics	BSc Hons		Title	Phil, Anth & Film	Maths & Statistics
<i>MA General</i>	MA Gen			Faculty of Arts	
Management	MA Hons		Title	Management	
Management	BSc Hons		Title	Management	
<i>Management and Art History</i>	MA Hons			Management	Art History
<i>Management and Classics</i>	MA Hons			Management	Classics
<i>Management and Comparative Literature</i>	MA Hons			Management	Modern Languages
<i>Management and Computer Science</i>	BSc Hons			Management	Computer Science
<i>Management and Economics</i>	BSc Hons			Management	Economics & Finance
<i>Management and Economics</i>	MA Hons			Management	Economics & Finance
<i>Management and English</i>	MA Hons			Management	English
<i>Management and French^M</i>	MA Hons	WIYA		Management	Modern Languages
<i>Management and Geography</i>	MA Hons			Management	Geog & Geosciences
<i>Management and Geography</i>	BSc Hons			Management	Geog & Geosciences
<i>Management and German^{GM}</i>	MA Hons	WIYA		Management	Modern Languages
<i>Management and International Relations</i>	MA Hons			Management	Int Relations
<i>Management and Italian^M</i>	MA Hons	WIYA		Management	Modern Languages
Management and Middle East Studies	MA Hons		Title	Management	History

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Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Management and Modern History	MA Hons		Title	Management	History
<i>Management and Modern Languages (two languages) – many options available, see under Modern Languages</i>	<i>MA Hons</i>				
		WIYA		<i>Management</i>	<i>Modern Languages</i>
Management and Philosophy	MA Hons		Title	Management	Phil, Anth & Film
Management and Psychology	MA Hons		Title	Management	Psych & Neuroscience
Management and RussianTM	MA Hons	WIYA	Title	Management	Modern Languages
Management and Spanish	MA Hons	WIYA	Title	Management	Modern Languages
Management Science	BSc Hons		Title	Management	
<i>Management Science and Computer Science</i>	<i>BSc Hons</i>			<i>Management</i>	<i>Computer Science</i>
<i>Management Science and Economics</i>	<i>BSc Hons</i>			<i>Management</i>	<i>Economics & Finance</i>
<i>Management Science and Geography</i>	<i>BSc Hons</i>			<i>Management</i>	<i>Geog & Geosciences</i>
Management Science and Mathematics	BSc Hons		Title	Management	Maths & Statistics
Management Science and Statistics	BSc Hons		Title	Management	Maths & Statistics
Marine Biology	BSc Hons		Title	Biology	
Materials Chemistry	BSc Hons		Title	Chemistry	
Materials Chemistry	MChem Hons		Title	Chemistry	
Materials Chemistry with External Placement	MChem Hons		Title	Chemistry	
Mathematics	BSc Hons		Title	Maths & Statistics	
Mathematics	MA Hons		Title	Maths & Statistics	
Mathematics	MMath Hons		Title	Maths & Statistics	
<i>Mathematics and Ancient History</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>History</i>
<i>Mathematics and Art History</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Art History</i>
<i>Mathematics and Biblical Studies</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Divinity</i>
<i>Mathematics and Chemistry</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Chemistry</i>
<i>Mathematics and Classical Studies</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Classics</i>
<i>Mathematics and Computer Science</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Computer Science</i>
<i>Mathematics and Economics</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Economics & Finance</i>
<i>Mathematics and Economics</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Economics & Finance</i>
<i>Mathematics and Geography</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Geog & Geosciences</i>
<i>Mathematics and German</i>	<i>MA Hons</i>	<i>WIYA</i>		<i>Maths & Statistics</i>	<i>Modern Languages</i>
<i>Mathematics and Hebrew</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Divinity</i>
<i>Mathematics and International Relations</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Int Relations</i>
<i>Mathematics and Italian</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Modern Languages</i>
<i>Mathematics and Latin</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Classics</i>
<i>Mathematics and Logic and Philosophy of Science</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Phil, Anth & Film</i>
<i>Mathematics and Management Science</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Management</i>

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Mathematics and Mediaeval History	MA Hons		Title	Maths & Statistics	History
Mathematics and Modern History	MA Hons		Title	Maths & Statistics	History
Mathematics and Philosophy	MA Hons		Title	Maths & Statistics	Phil, Anth & Film
Mathematics and Physics	BSc Hons		Title	Maths & Statistics	Physics & Astronomy
Mathematics and Psychology	MA Hons		Title	Maths & Statistics	Psych & Neuroscience
Mathematics and Psychology	BSc Hons		Title	Maths & Statistics	Psych & Neuroscience
Mathematics and Russian	MA Hons	WIYA	Title	Maths & Statistics	Modern Languages
Mathematics and Scottish History	MA Hons		Title	Maths & Statistics	History
Mathematics and Spanish	MA Hons	WIYA	Title	Maths & Statistics	Modern Languages
Mathematics and Theological Studies	MA Hons		Title	Maths & Statistics	Divinity
Mathematics and Theoretical Physics	MPhys Hons		Title	Maths & Statistics	Physics & Astronomy
Mathematics with Geography	BSc Hons		Title	Maths & Statistics	Geog & Geosciences
Mathematics with Russian	MA Hons	WIYA	Title	Maths & Statistics	Modern Languages
Mathematics with Spanish	MA Hons	WIYA	Title	Maths & Statistics	Modern Languages
Mediaeval History	MA Hons		Title	History	
Mediaeval History and Archaeology	MA Hons		Title	History	
<i>Mediaeval History and Art History</i>	<i>MA Hons</i>			<i>History</i>	<i>Art History</i>
<i>Mediaeval History and Classical Studies</i>	<i>MA Hons</i>			<i>History</i>	<i>Classics</i>
<i>Mediaeval History and Comparative Literature</i>	<i>MA Hons</i>			<i>History</i>	<i>Modern Languages</i>
<i>Mediaeval History and Economics</i>	<i>MA Hons</i>			<i>History</i>	<i>Economics & Finance</i>
<i>Mediaeval History and English</i>	<i>MA Hons</i>			<i>History</i>	<i>English</i>
<i>Mediaeval History and French</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Mediaeval History and Geography</i>	<i>MA Hons</i>			<i>History</i>	<i>Geog & Geosciences</i>
<i>Mediaeval History and German</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Mediaeval History and International Relations^T</i>	<i>MA Hons</i>			<i>History</i>	<i>Int Relations</i>
<i>Mediaeval History and Italian</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Mediaeval History and Latin</i>	<i>MA Hons</i>			<i>History</i>	<i>Classics</i>
<i>Mediaeval History and Mathematics</i>	<i>MA Hons</i>			<i>History</i>	<i>Maths & Statistics</i>
Mediaeval History and Middle East Studies	MA Hons		Title	History	History
Mediaeval History and Philosophy	MA Hons		Title	History	Phil, Anth & Film
Mediaeval History and Psychology	MA Hons		Title	History	Psych & Neuroscience
Mediaeval History and Russian	MA Hons	WIYA	Title	History	Modern Languages
Mediaeval History and Social Anthropology	MA Hons		Title	History	Phil, Anth & Film
Mediaeval History and Spanish	MA Hons	WIYA	Title	History	Modern Languages
Mediaeval History and Theological Studies^T	MA Hons		Title	History	Divinity
Mediaeval Studies	MA Hons		Title	History	

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Medicine	BSc Hons		Title	Medicine	
<i>Middle East Studies and Art History</i>	<i>MA Hons</i>			<i>History</i>	<i>Art History</i>
<i>Middle East Studies and Classical Studies</i>	<i>MA Hons</i>			<i>History</i>	<i>Classics</i>
<i>Middle East Studies and Economics</i>	<i>MA Hons</i>			<i>History</i>	<i>Economics & Finance</i>
<i>Middle East Studies and English</i>	<i>MA Hons</i>			<i>History</i>	<i>English</i>
<i>Middle East Studies and Geography</i>	<i>MA Hons</i>			<i>History</i>	<i>Geog & Geosciences</i>
<i>Middle East Studies and German</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Middle East Studies and Hebrew</i>	<i>MA Hons</i>			<i>History</i>	<i>Divinity</i>
<i>Middle East Studies and International Relations</i>	<i>MA Hons</i>			<i>History</i>	<i>Int Relations</i>
<i>Middle East Studies and Italian</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Middle East Studies and Latin</i>	<i>MA Hons</i>			<i>History</i>	<i>Classics</i>
<i>Middle East Studies and Management</i>	<i>MA Hons</i>			<i>History</i>	<i>Management</i>
<i>Middle East Studies and Mediaeval History</i>	<i>MA Hons</i>			<i>History</i>	<i>History</i>
Middle East Studies and Modern History	MA Hons		Title	History	History
Middle East Studies and Russian	MA Hons	WIYA	Title	History	Modern Languages
Middle East Studies and Social Anthropology	MA Hons		Title	History	Phil, Anth & Film
Middle East Studies and Spanish	MA Hons	WIYA	Title	History	Modern Languages
Modern History	MA Hons		Title	History	
<i>Modern History and Art History</i>	<i>MA Hons</i>			<i>History</i>	<i>Art History</i>
<i>Modern History and Classical Studies</i>	<i>MA Hons</i>			<i>History</i>	<i>Classics</i>
<i>Modern History and Comparative Literature</i>	<i>MA Hons</i>			<i>History</i>	<i>Modern Languages</i>
<i>Modern History and Economics</i>	<i>MA Hons</i>			<i>History</i>	<i>Economics & Finance</i>
<i>Modern History and English</i>	<i>MA Hons</i>			<i>History</i>	<i>English</i>
<i>Modern History and Film Studies</i>	<i>MA Hons</i>			<i>History</i>	<i>Phil, Anth & Film</i>
<i>Modern History and French</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Modern History and Geography</i>	<i>MA Hons</i>			<i>History</i>	<i>Geog & Geosciences</i>
<i>Modern History and German</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Modern History and International Relations</i>	<i>MA Hons</i>			<i>History</i>	<i>Int Relations</i>
<i>Modern History and Italian</i>	<i>MA Hons</i>	WIYA		<i>History</i>	<i>Modern Languages</i>
<i>Modern History and Latin</i>	<i>MA Hons</i>			<i>History</i>	<i>Classics</i>
<i>Modern History and Management</i>	<i>MA Hons</i>			<i>History</i>	<i>Management</i>
<i>Modern History and Mathematics</i>	<i>MA Hons</i>			<i>History</i>	<i>Maths & Statistics</i>
<i>Modern History and Middle East Studies</i>	<i>MA Hons</i>			<i>History</i>	<i>History</i>
Modern History and New Testament	MA Hons		Title	History	Divinity
Modern History and Philosophy	MA Hons		Title	History	Phil, Anth & Film
Modern History and Psychology^T	MA Hons		Title	History	Psych & Neuroscience

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Modern History and Russian	MA Hons	WIYA	Title	History	Modern Languages
Modern History and Social Anthropology ^T	MA Hons		Title	History	Phil, Anth & Film
Modern History and Spanish ^T	MA Hons	WIYA	Title	History	Modern Languages
Modern History and Theological Studies	MA Hons		Title	History	Divinity
Modern Languages (Arabic and French) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and French) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and French) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Arabic and French) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Arabic and French) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and French) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Arabic and German) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and German) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Arabic and German) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Arabic and German) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and German) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Arabic and Italian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Italian) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Italian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Arabic and Italian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Arabic and Italian) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Italian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Arabic and Russian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Russian) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Russian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Arabic and Russian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Arabic and Russian) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Modern Languages (Arabic and Russian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Arabic and Spanish) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Spanish) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Spanish) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Arabic and Spanish) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Arabic and Spanish) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Arabic and Spanish) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (French and German) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and German) and English	MA Hons	WIYA	Title	Modern Languages	
Modern Languages (French and German) and Greek	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and German) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (French and German) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and German) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (French and Italian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Italian) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Italian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (French and Italian) and Greek	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Italian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (French and Italian) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Italian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (French and Russian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Russian) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Russian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (French and Russian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (French and	MA Hons	WIYA	Title	Modern Languages	Classics

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Russian) and Latin					
Modern Languages (French and Russian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (French and Spanish) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Spanish) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Spanish) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (French and Spanish) and Greek	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Spanish) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (French and Spanish) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (French and Spanish) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (German and Italian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Italian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (German and Italian) and Greek	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Italian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (German and Italian) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Italian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (German and Russian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Russian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (German and Russian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (German and Russian) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Russian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (German and Spanish) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Spanish) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (German and Spanish) and Greek	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (German and Spanish) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (German and Spanish) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Modern Languages (German and Spanish) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Italian and Russian) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Russian) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Russian) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Italian and Russian) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Italian and Russian) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Russian) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Italian and Spanish) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Spanish) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Spanish) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Italian and Spanish) and Greek	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Spanish) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Italian and Spanish) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Italian and Spanish) and Management	MA Hons	WIYA	Title	Modern Languages	Management
Modern Languages (Russian and Spanish) and Ancient History	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Russian and Spanish) and Classical Studies	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Russian and Spanish) and English	MA Hons	WIYA	Title	Modern Languages	English
Modern Languages (Russian and Spanish) and International Relations	MA Hons	WIYA	Title	Modern Languages	Int Relations
Modern Languages (Russian and Spanish) and Latin	MA Hons	WIYA	Title	Modern Languages	Classics
Modern Languages (Russian and Spanish) and Management	MA Hons	WIYA	Title	Modern Languages	Management
<i>Modern Languages (Triple)</i>	<i>MA Hons</i>	WIYA		<i>Modern Languages</i>	
<i>Modern Languages (two languages) and Ancient History</i>	<i>MA Hons</i>		WIYA	<i>Modern Languages</i>	<i>Classics</i>
<i>Modern Languages (two languages) and Classical Studies</i>	<i>MA Hons</i>		WIYA	<i>Modern Languages</i>	<i>Classics</i>
<i>Modern Languages (two languages) and English</i>	<i>MA Hons</i>		WIYA	<i>Modern Languages</i>	<i>English</i>
<i>Modern Languages (two languages) and</i>	<i>MA Hons</i>		WIYA	<i>Modern Languages</i>	<i>Classics</i>

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Greek</i>					
<i>Modern Languages (two languages) and International Relations</i>	MA Hons			Modern Languages	Int Relations
<i>Modern Languages (two languages) and Latin</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Modern Languages (two languages) with Management</i>	MA Hons			Modern Languages	Management
Molecular Biology	BSc Hons		Title	Biology	
MTheol Honours	MTheol Hons			Divinity	
Neuroscience	BSc Hons		Title	Biology	
<i>New Testament and Classical Studies</i>	MA Hons			Divinity	Classics
<i>New Testament and German</i>	MA Hons	WIYA		Divinity	Modern Languages
<i>New Testament and Greek</i>	MA Hons			Divinity	Classics
<i>New Testament and Hebrew</i>	MA Hons			Divinity	Divinity
<i>New Testament and Latin</i>	MA Hons			Divinity	Classics
<i>New Testament and Modern History</i>	MA Hons			Divinity	History
Philosophy	MA Hons		Title	Phil, Anth & Film	
<i>Philosophy and Ancient History</i>	MA Hons			Phil, Anth & Film	Classics
<i>Philosophy and Art History</i>	MA Hons			Phil, Anth & Film	Art History
<i>Philosophy and Biblical Studies</i>	MA Hons			Phil, Anth & Film	Divinity
<i>Philosophy and Classical Studies</i>	MA Hons			Phil, Anth & Film	Classics
<i>Philosophy and Classics</i>	MA Hons			Phil, Anth & Film	Classics
<i>Philosophy and Comparative Literature</i>	MA Hons			Phil, Anth & Film	Modern Languages
<i>Philosophy and Economics</i>	MA Hons			Phil, Anth & Film	Economics & Finance
<i>Philosophy and English</i>	MA Hons			Phil, Anth & Film	English
<i>Philosophy and Film Studies</i>	MA Hons			Phil, Anth & Film	Phil, Anth & Film
<i>Philosophy and French</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Philosophy and Geography</i>	MA Hons			Phil, Anth & Film	Geog & Geosciences
<i>Philosophy and German</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Philosophy and Greek</i>	MA Hons			Phil, Anth & Film	Classics
<i>Philosophy and International Relations</i>	MA Hons			Phil, Anth & Film	Int Relations
<i>Philosophy and Italian</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Philosophy and Latin</i>	MA Hons			Phil, Anth & Film	Classics
<i>Philosophy and Management</i>	MA Hons			Phil, Anth & Film	Management
<i>Philosophy and Mathematics</i>	MA Hons			Phil, Anth & Film	Maths & Statistics
<i>Philosophy and Mediaeval History</i>	MA Hons			Phil, Anth & Film	History
<i>Philosophy and Modern History</i>	MA Hons			Phil, Anth & Film	History
Philosophy and Psychology	MA Hons		Title	Phil, Anth & Film	Psych & Neuroscience
Philosophy and Russian	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Philosophy and Scottish History	MA Hons		Title	Phil, Anth & Film	History

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Philosophy and Social Anthropology	MA Hons		Title	Phil, Anth & Film	Phil, Anth & Film
Philosophy and Spanish	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Philosophy and Statistics	MA Hons		Title	Phil, Anth & Film	Maths & Statistics
Philosophy and Theological Studies	MA Hons		Title	Phil, Anth & Film	Divinity
Physics	BSc Hons		Title	Physics & Astronomy	
Physics	MPhys Hons		Title	Physics & Astronomy	
<i>Physics and Chemistry</i>	<i>MSci</i>			<i>Physics & Astronomy</i>	<i>Chemistry</i>
<i>Physics and Computer Science</i>	<i>BSc Hons</i>			<i>Physics & Astronomy</i>	<i>Computer Science</i>
<i>Physics and Logic and Philosophy of Science</i>	<i>BSc Hons</i>			<i>Physics & Astronomy</i>	<i>Phil, Anth & Film</i>
<i>Physics and Mathematics</i>	<i>BSc Hons</i>			<i>Physics & Astronomy</i>	<i>Maths & Statistics</i>
Psychology	MA Hons		Title	Psych & Neuroscience	
Psychology	BSc Hons		Title	Psych & Neuroscience	
<i>Psychology and Art History</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Art History</i>
<i>Psychology and Biology</i>	<i>BSc Hons</i>			<i>Psych & Neuroscience</i>	<i>Biology</i>
<i>Psychology and Computer Science</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Computer Science</i>
<i>Psychology and Economics</i>	<i>BSc Hons</i>			<i>Psych & Neuroscience</i>	<i>Economics & Finance</i>
<i>Psychology and Economics</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Economics & Finance</i>
<i>Psychology and English</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>English</i>
<i>Psychology and Film Studies</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Phil, Anth & Film</i>
<i>Psychology and French</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Modern Languages</i>
<i>Psychology and Geography</i>	<i>MA Hons</i>	WIYA		<i>Psych & Neuroscience</i>	<i>Geog & Geosciences</i>
<i>Psychology and German</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Modern Languages</i>
<i>Psychology and International Relations</i>	<i>MA Hons</i>	WIYA		<i>Psych & Neuroscience</i>	<i>Int Relations</i>
<i>Psychology and Italian</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Modern Languages</i>
<i>Psychology and Management</i>	<i>MA Hons</i>	WIYA		<i>Psych & Neuroscience</i>	<i>Management</i>
<i>Psychology and Mathematics</i>	<i>MA Hons</i>			<i>Psych & Neuroscience</i>	<i>Maths & Statistics</i>
<i>Psychology and Mathematics</i>	<i>BSc Hons</i>			<i>Psych & Neuroscience</i>	<i>Maths & Statistics</i>

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Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Psychology and Mediaeval History</i>	MA Hons			Psych & Neuroscience	History
<i>Psychology and Modern History^T</i>	MA Hons			Psych & Neuroscience	History
<i>Psychology and Philosophy</i>	MA Hons			Psych & Neuroscience	Phil, Anth & Film
Psychology and Social Anthropology	MA Hons		Title	Psych & Neuroscience	Phil, Anth & Film
Psychology and Theological Studies	MA Hons		Title	Psych & Neuroscience	Divinity
Psychology with Biology	BSc Hons		Title	Psych & Neuroscience	Biology
Psychology with Geography	MA Hons		Title	Psych & Neuroscience	Geog & Geosciences
Pure Mathematics	MMath Hons		Title	Maths & Statistics	
Russian	MA Hons	WIYA	Title	Modern Languages	
<i>Russian and Arabic</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and Arabic and another modern language - see under Arabic</i>					
<i>Russian and Art History</i>	MA Hons	WIYA		Modern Languages	Art History
<i>Russian and Classical Studies and another modern language – for options available, see Modern Languages</i>					
<i>Russian and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and Economics</i>	MA Hons	WIYA		Modern Languages	Economics & Finance
<i>Russian and English^{E M}</i>	MA Hons	WIYA		Modern Languages	English
<i>Russian and Film Studies</i>	MA Hons	WIYA		Modern Languages	Phil, Anth & Film
<i>Russian and French</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and French - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Russian and French and another modern language - see under French</i>					
<i>Russian and French and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and German</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and German - and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Russian and German and another modern language - see under German</i>					
<i>Russian and German and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and Hebrew</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and International Relations^M</i>	MA Hons	WIYA		Modern Languages	Int Relations
<i>Russian and Italian</i>	MA Hons	WIYA		Modern Languages	

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Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Russian and Italian - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Russian and Italian and another modern language - see under Italian</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and Latin^M</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Russian and Management^{T M}</i>	MA Hons	WIYA		Modern Languages	Management
<i>Russian and Mathematics</i>	MA Hons	WIYA		Modern Languages	Maths & Statistics
<i>Russian and Mediaeval History</i>	MA Hons	WIYA		Modern Languages	History
<i>Russian and Middle East Studies</i>	MA Hons	WIYA		Modern Languages	History
<i>Russian and Modern History</i>	MA Hons	WIYA		Modern Languages	History
<i>Russian and Philosophy</i>	MA Hons	WIYA		Modern Languages	Phil, Anth & Film
Russian and Scottish History	MA Hons	WIYA	Title	Modern Languages	History
Russian and Social Anthropology	MA Hons	WIYA	Title	Modern Languages	Phil, Anth & Film
Russian and Spanish	MA Hons	WIYA	Title	Modern Languages	
<i>Russian and Spanish - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Russian and Spanish and Arabic</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Russian and Spanish and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Russian and Spanish and French</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Russian and Spanish and German</i>					
<i>Russian and Spanish and Italian</i>					
Russian and Theological Studies	MA Hons	WIYA	Title	Modern Languages	Divinity
Russian with Geography	MA Hons	WIYA	Title	Modern Languages	Geog & Geosciences
Science (General Degree)	BScGen			Faculty of Science	
Scottish History	MA Hons		Title	History	
<i>Scottish History and Classical Studies</i>	MA Hons			History	Classics
<i>Scottish History and English</i>	MA Hons			History	English
<i>Scottish History and Film Studies</i>	MA Hons			History	Phil, Anth & Film
<i>Scottish History and Geography</i>	MA Hons			History	Geog & Geosciences
<i>Scottish History and International Relations</i>	MA Hons			History	Int Relations
<i>Scottish History and Italian</i>	MA Hons	WIYA		History	Modern Languages
<i>Scottish History and Mathematics</i>	MA Hons			History	Maths & Statistics
<i>Scottish History and Philosophy</i>	MA Hons			History	Phil, Anth & Film
<i>Scottish History and Russian</i>	MA Hons	WIYA		History	Modern Languages
Scottish History and Social Anthropology	MA Hons		Title	History	Phil, Anth & Film
Scottish History and Spanish	MA Hons	WIYA	Title	History	Modern Languages
Social Anthropology	MA Hons		Title	Phil, Anth & Film	
<i>Social Anthropology and Ancient History</i>				Phil, Anth & Film	Classics

Also WIYA - means the degree is available with or without an Integrated Year Abroad

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^E – Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

^T – Timetable clash exists and this combination is subject to the agreement of the Chair of the Department or Head of School concerned.

^G – This combination is only available to non-beginners in German due to a timetable clash.

^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Social Anthropology and Art History</i>	MA Hons			Phil, Anth & Film	Classics
<i>Social Anthropology and Classical Studies</i>	MA Hons			Phil, Anth & Film	
<i>Social Anthropology and Comparative Literature</i>	MA Hons			Phil, Anth & Film	Modern Languages
<i>Social Anthropology and Economics</i>	MA Hons			Phil, Anth & Film	Economics & Finance
<i>Social Anthropology and English</i>	MA Hons			Phil, Anth & Film	English
<i>Social Anthropology and Film Studies</i>	MA Hons			Phil, Anth & Film	Phil, Anth & Film
<i>Social Anthropology and French</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Social Anthropology and Geography</i>	MA Hons			Phil, Anth & Film	Geog & Geosciences
<i>Social Anthropology and German</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Social Anthropology and Greek</i>	MA Hons			Phil, Anth & Film	Classics
<i>Social Anthropology and International Relations</i>	MA Hons			Phil, Anth & Film	Int Relations
<i>Social Anthropology and Italian</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Social Anthropology and Latin</i>	MA Hons			Phil, Anth & Film	Classics
<i>Social Anthropology and Mediaeval History</i>	MA Hons			Phil, Anth & Film	History
<i>Social Anthropology and Middle East Studies</i>	MA Hons			Phil, Anth & Film	History
<i>Social Anthropology and Modern History</i> ^T	MA Hons			Phil, Anth & Film	History
<i>Social Anthropology and Philosophy</i>	MA Hons			Phil, Anth & Film	Phil, Anth & Film
<i>Social Anthropology and Psychology</i>	MA Hons			Phil, Anth & Film	Psych & Neuroscience
<i>Social Anthropology and Russian</i>	MA Hons	WIYA		Phil, Anth & Film	Modern Languages
<i>Social Anthropology and Scottish History</i>	MA Hons			Phil, Anth & Film	History
Social Anthropology and Spanish ^T	MA Hons	WIYA	Title	Phil, Anth & Film	Modern Languages
Social Anthropology and Theological Studies	MA Hons		Title	Phil, Anth & Film	Divinity
Social Anthropology with Geography	MA Hons		Title	Phil, Anth & Film	Geog & Geosciences
Spanish	MA Hons	WIYA	Title	Modern Languages	
<i>Spanish and Ancient History</i> ^M	MA Hons	WIYA		Modern Languages	Classics
<i>Spanish and Arabic</i>	MA Hons	WIYA		Modern Languages	Modern Languages
<i>Spanish and Arabic and another modern language - see under Arabic</i>	MA Hons	WIYA		Modern Languages	Modern Languages
<i>Spanish and Art History</i>	MA Hons	WIYA		Modern Languages	Art History
<i>Spanish and Classics</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Spanish and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	Modern Languages
<i>Spanish and Economics</i>	MA Hons	WIYA		Modern Languages	Economics & Finance
<i>Spanish and English</i> ^M	MA Hons	WIYA		Modern Languages	English
<i>Spanish and Film Studies</i>	MA Hons	WIYA		Modern Languages	Phil, Anth & Film
<i>Spanish and French</i>	MA Hons	WIYA		Modern Languages	

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^E - Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead.

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^G - This combination is only available to non-beginners in German due to a timetable clash.

^M - This combination is also available including a second language, see under Modern Languages.

^X - Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
<i>Spanish and French - and a third subject (Ancient History, Classical Studies, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Spanish and French and another modern language - see under French</i>					
<i>Spanish and French and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and Geography</i>	MA Hons	WIYA		Modern Languages	Geog & Geosciences
<i>Spanish and German</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and German - and a third subject (Ancient History, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Spanish and German and another modern language - see under German</i>					
<i>Spanish and German and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and Greek^M</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Spanish and International Relations^M</i>	MA Hons	WIYA		Modern Languages	Int Relations
<i>Spanish and Italian</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and Italian - and a third subject (Ancient History, Classical Studies, English, Greek, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Spanish and Italian and another modern language - see under Italian</i>					
<i>Spanish and Italian and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and Latin^M</i>	MA Hons	WIYA		Modern Languages	Classics
<i>Spanish and Management^M</i>	MA Hons	WIYA		Modern Languages	Management
<i>Spanish and Mathematics</i>	MA Hons	WIYA		Modern Languages	Maths & Statistics
<i>Spanish and Mediaeval History</i>	MA Hons	WIYA		Modern Languages	History
<i>Spanish and Middle East Studies</i>	MA Hons	WIYA		Modern Languages	History
<i>Spanish and Modern History^T</i>	MA Hons	WIYA		Modern Languages	History
<i>Spanish and Philosophy</i>	MA Hons	WIYA		Modern Languages	Phil, Anth & Film
<i>Spanish and Russian</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and Russian - and a third subject (Ancient History, Classical Studies, English, International Relations, Latin, Management) – see under Modern Languages</i>					
<i>Spanish and Russian and another modern language - see under Russian</i>					
<i>Spanish and Russian and Comparative Literature</i>	MA Hons	WIYA		Modern Languages	
<i>Spanish and Scottish History</i>	MA Hons	WIYA		Modern Languages	History
<i>Spanish and Social Anthropology^T</i>	MA Hons	WIYA		Modern Languages	Phil, Anth & Film
Spanish and Theological Studies	MA Hons	WIYA	Title	Modern Languages	Divinity
Spanish with Geography	MA Hons	WIYA	Title	Modern Languages	Geog & Geosciences
Statistics	BSc Hons		Title	Maths & Statistics	

Also WIYA - means the degree is available with or without an Integrated Year Abroad

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^M – This combination is also available including a second language, see under Modern Languages.

^X – Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

Current Undergraduate Degree List - August 2012

Degree Name	Qualification	Also WIYA	Title	Contributing School	Contributing School
Statistics	MMath (Hons)		Title	Maths & Statistics	
Statistics	MA Hons		Title	Maths & Statistics	
<i>Statistics and Biology</i>	<i>BSc Hons</i>			<i>Maths & Statistics</i>	<i>Biology</i>
<i>Statistics and Computer Science</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Computer Science</i>
<i>Statistics and Economics</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Economics & Finance</i>
<i>Statistics and Economics</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Economics & Finance</i>
<i>Statistics and Geography</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Geog & Geosciences</i>
<i>Statistics and Logic and Philosophy of Science</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Phil, Anth & Film</i>
<i>Statistics and Management Science</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Management</i>
<i>Statistics and Philosophy</i>	<i>MA Hons</i>			<i>Maths & Statistics</i>	<i>Phil, Anth & Film</i>
Sustainable Development	BSc Hons		Title	Geog & Geosciences	
Sustainable Development	MA Hons		Title	Geog & Geosciences	
Theological Studies	MA Hons		Title	Divinity	
<i>Theological Studies and Classical Studies</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Classics</i>
<i>Theological Studies and English</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>English</i>
<i>Theological Studies and Film Studies</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Phil, Anth & Film</i>
<i>Theological Studies and French</i>	<i>MA Hons</i>	WIYA		<i>Divinity</i>	<i>Modern Languages</i>
<i>Theological Studies and Geography</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Geog & Geosciences</i>
<i>Theological Studies and German</i>	<i>MA Hons</i>	WIYA		<i>Divinity</i>	<i>Modern Languages</i>
<i>Theological Studies and International Relations^T</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Int Relations</i>
<i>Theological Studies and Mathematics</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Maths & Statistics</i>
<i>Theological Studies and Mediaeval History^T</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>History</i>
<i>Theological Studies and Modern History</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>History</i>
<i>Theological Studies and Philosophy</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Phil, Anth & Film</i>
<i>Theological Studies and Psychology</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Psych & Neuroscience</i>
<i>Theological Studies and Social Anthropology</i>	<i>MA Hons</i>			<i>Divinity</i>	<i>Phil, Anth & Film</i>
<i>Theological Studies and Spanish</i>	<i>MA Hons</i>	WIYA		<i>Divinity</i>	<i>Modern Languages</i>
Theology	MTheol Hons		Title	Divinity	
Theoretical Physics	MPhys Hons		Title	Physics & Astronomy	
<i>Theoretical Physics and Mathematics</i>	<i>MPhys Hons</i>			<i>Physics & Astronomy</i>	<i>Maths & Statistics</i>
Zoology	BSc Hons		Title	Biology	

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^M - This combination is also available including a second language, see under Modern Languages.

^X - Due to a timetable clash, students taking this degree will take Ancient History, Latin or Greek modules in their first year and Classical Studies in their second. Contact the School of Classics for further information.

The following degrees have been suspended temporarily:

Degree Name	Qualification	Title	Contributing School	Contributing School
Arabic and Art History (WIYA)	MA Hons	Title	Modern Languages	Art History
Arabic and Comparative Literature (WIYA)	MA Hons	Title	Modern Languages	Modern Languages
Arabic and Economics (WIYA)	MA Hons	Title	Modern Languages	Economics & Finance & Finance
Arabic and English (WIYA)	MA Hons	Title	Modern Languages	English
Arabic and Film Studies (WIYA)	MA Hons	Title	Modern Languages	Phil, Anth & Film
Arabic and Hebrew (WIYA)	MA Hons	Title	Modern Languages	Divinity
Arabic and International Relations (WIYA)	MA Hons	Title	Modern Languages	Int Relations
Arabic and Italian (WIYA)	MA Hons	Title	Modern Languages	Modern Languages
Arabic and Latin (WIYA)	MA Hons	Title	Modern Languages	Classics
Arabic and Management (WIYA)	<i>MA Hons</i>	Title	Modern Languages	Management
Arabic and Mathematics (WIYA)	<i>MA Hons</i>	Title	Modern Languages	Maths & Statistics
Arabic and Mediaeval History (WIYA)	<i>MA Hons</i>	Title	Modern Languages	History
Arabic and Middle East Studies (WIYA)	<i>MA Hons</i>	Title	Modern Languages	History
Arabic and Modern History (WIYA)	MA Hons	Title	Modern Languages	History
Arabic and Philosophy (WIYA)	MA Hons	Title	Modern Languages	Phil, Anth & Film
Arabic and Russian (WIYA)	MA Hons	Title	Modern Languages	Modern Languages
Arabic and Social Anthropology (WIYA)	MA Hons	Title	Modern Languages	Phil, Anth & Film
Art History and Arabic (WIYA)	MA Hons	Title	Art History	Modern Languages
Comparative Literature and Arabic (WIYA)	MA Hons	Title	Modern Languages	Modern Languages
Film Studies and Arabic (WIYA)	MA Hons	Title	Phil, Anth & Film	Modern Languages
<i>Hebrew and Arabic (WIYA)</i>	MA Hons		<i>Divinity</i>	<i>Modern Languages</i>
<i>International Relations and Arabic (WIYA)</i>	MA Hons		<i>Int Relations</i>	<i>Modern Languages</i>
<i>Latin and Arabic (WIYA)</i>	MA Hons		<i>Classics</i>	<i>Modern Languages</i>
<i>Management and Arabic (WIYA)</i>	MA Hons		<i>Management</i>	<i>Modern Languages</i>
<i>Mathematics and Arabic (WIYA)</i>	MA Hons		<i>Maths & Statistics</i>	<i>Modern Languages</i>
<i>Mediaeval History and Arabic (WIYA)</i>	MA Hons		<i>History</i>	<i>Modern Languages</i>
<i>Middle East Studies and Arabic (WIYA)</i>	MA Hons		<i>History</i>	<i>Modern Languages</i>
<i>Modern History and Arabic (WIYA)</i>	MA Hons		<i>History</i>	<i>Modern Languages</i>

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The following degrees are no longer available to entrants:

Degree Name	Qualification	Title	Contributing School	Contributing School
Not available to entrants from 2013-2014				
Greek and Latin	<i>MA Hons</i>	Title	Classics	Classics
<i>Latin and Greek</i>	<i>MA Hons</i>		<i>Classics</i>	<i>Classics</i>
Not available to entrants from 2012-2013				
<i>Mathematics and Internet Computer Science</i>	<i>BSc Hons</i>		<i>Maths & Statistics</i>	<i>Computer Science</i>
Applied Quantitative Finance	<i>BSc Hons</i>	Title	Economics & Finance	
Environmental Biology and Environmental Geoscience	<i>BSc Hons</i>	Title	Biology	Geog & Geosciences
Environmental Biology and Geoscience	<i>BSc Hons</i>	Title	Biology	Geog & Geosciences
<i>Environmental Geoscience and Environmental Biology</i>	<i>BSc Hons</i>		<i>Biology</i>	<i>Biology</i>
Physics with Photonics	<i>BSc Hons</i>	Title	Physics & Astronomy	
Psychology with Film Studies	<i>MA Hons</i>	Title	Psych & Neuroscience	Phil, Anth & Film
Not available to entrants from 2011-2012				
Internet Computer Science and Economics	<i>BSc Hons</i>	Title	Computer Science	Econ & Finance
Internet Computer Science and Mathematics	<i>BSc Hons</i>	Title	Computer Science	Maths & Statistics
Arabic & Middle East Studies SINGLE HONOURS	<i>MA Hons</i>	Title	Modern Languages/History	
Economics and Environmental Geoscience	<i>BSc Hons</i>	Title	Econ & Finance	Geog & Geosciences
Economics and Geoscience	<i>BSc Hons</i>	Title	Econ & Finance	Geog & Geosciences
Economics and Internet Computer Science	<i>BSc Hons</i>		Econ & Finance	Computer Science
Environmental Geoscience and Economics	<i>BSc Hons</i>		Biology	Economics & Finance & Finance
Geoscience and Economics	<i>BSc Hons</i>		Geog & Geosciences	Economics & Finance & Finance
Not available to entrants from 2010-2011				
Chemistry and Geoscience	<i>BSc Hons</i>		Chemistry	Geog & Geosciences
Chemistry with Pharmacology	<i>BSc Hons</i>		Chemistry	
Not available to entrants from 2009-2010				
French and German with Linguistics (WIYA)	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages
French and Italian with Linguistics (WIYA)	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages
French and Italian with Linguistics	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages
French and Russian with Linguistics (WIYA)	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages
French and Russian with Linguistics	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages
French and Spanish with Linguistics (WIYA)	<i>MA Hons</i>	WIYA	Modern Languages	Classics
French and Spanish with Linguistics	<i>MA Hons</i>	WIYA	Modern Languages	Classics
German and French with Linguistics (WIYA)	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages
German and French with Linguistics	<i>MA Hons</i>	WIYA	Modern Languages	Modern Languages

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German and Italian with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
German and Italian with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
German and Russian with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
German and Russian with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
German and Spanish with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
German and Spanish with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and French with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and French with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and German with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and German with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and Russian with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and Russian with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and Spanish with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
Italian and Spanish with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
Russian and Spanish with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
Russian and Spanish with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
Spanish and French with Linguistics (WIYA)	MA Hons	WIYA	Modern Languages	Modern Languages
Spanish and French with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
French and German with Linguistics	MA Hons	WIYA	Modern Languages	Modern Languages
French with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
French with Linguistics-09	MA Hons	WIYA	Modern Languages	Modern Languages
Modern Languages with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
Modern Languages (two languages) with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
Modern Languages (two languages) with Linguistics-09	MA Hons	WIYA	Modern Languages	Modern Languages
Russian with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
Russian with Linguistics-09	MA Hons	WIYA	Modern Languages	Modern Languages
Spanish with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
Spanish with Linguistics-09	MA Hons	WIYA	Modern Languages	Modern Languages
English with Linguistics-09	MA Hons		Modern Languages	Modern Languages
Linguistics Degrees na-09	MA Hons		Modern Languages	Modern Languages
Psychology with Linguistics-09	MA Hons		Psych & Neuroscience	Modern Languages
Psychology with Linguistics-09	MA Hons		Psych & Neuroscience	Modern Languages
French with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages
French with Linguistics-09	MA Hons	WIYA	Modern Languages	Modern Languages
Russian and French with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	Modern Languages

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Russian and French with Linguistics-09	MA Hons	WIYA	Modern Languages	
Russian and German with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	
Russian and German with Linguistics-09	MA Hons	WIYA	Modern Languages	
Russian and Italian with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	
Russian and Italian with Linguistics-09	MA Hons	WIYA	Modern Languages	
Russian with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	
Russian with Linguistics-09	MA Hons	WIYA	Modern Languages	
Spanish and Italian with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	
Spanish and Italian with Linguistics-09	MA Hons	WIYA	Modern Languages	
Spanish with Linguistics (WIYA)-09	MA Hons	WIYA	Modern Languages	
Spanish with Linguistics-09	MA Hons	WIYA	Modern Languages	
Theological Studies with Linguistics-09	MA Hons		Divinity	Modern Languages
Social Anthropology with Linguistics-09	MA Hons		Phil, Anth & Film	Modern Languages

Not available to entrants from 2008-2009

Mathematics with French (WIYA)-08	MA Hons	WIYA	Maths & Statistics	Modern Languages
Mathematics with French na-08	MA Hons	WIYA	Maths & Statistics	Modern Languages
Mathematics with German (WIYA)-08	MA Hons	WIYA	Maths & Statistics	Modern Languages
Mathematics with German na-08	MA Hons	WIYA	Maths & Statistics	Modern Languages
Biology with German (WIYA)-08	MA Hons	WIYA	Biology	Modern Languages
Biology with German na-08	MA Hons	WIYA	Biology	Modern Languages
Biology with Spanish (WIYA)-08	MA Hons	WIYA	Biology	Modern Languages
Biology with Spanish na-08	MA Hons	WIYA	Biology	Modern Languages
Computer Science with French (WIYA)-08	MA Hons	WIYA	Computer Science	Modern Languages
Computer Science with French na-08	MA Hons	WIYA	Computer Science	Modern Languages
Economics with French (WIYA)-08	MA Hons	WIYA	Econ & Finance	Modern Languages
Economics with French na-08	MA Hons	WIYA	Econ & Finance	Modern Languages
Geography with French (WIYA)-08	MA Hons	WIYA	Geog & Geosciences	Modern Languages
Geography with French na-08	MA Hons	WIYA	Geog & Geosciences	Modern Languages
Physics with French (WIYA)-08	MA Hons	WIYA	Physics & Astronomy	Modern Languages
Physics with French na-08	MA Hons	WIYA	Physics & Astronomy	Modern Languages

School of Art History

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

Art History - Single Honours M.A.

First Year: 20 credits: AH1001 **or** AH1003.
 Second Year: 40 credits: AH2001 **and** AH2002 - with passes at grade 11 or better in both.
 Third Year: 30 credits: AH3130;
 90 credits: AH3000 - AH4089, AH4100 - AH4899.
 Fourth Year: At least 30 credits: AH4097 **or** AH4099;
 Further credits: AH3000 - AH4089, AH4100 - AH4899 to total 120 credits for the year.

With the permission of the Director of Teaching and the relevant Head of School, 30 credits in Third or Fourth year may be substituted by 3000- or 4000- level credits from another subject.

Art History - Joint Honours M.A.

Art History and one of: Ancient History, Arabic ^W, Biblical Studies, Classical Studies, Comparative Literature, English, Film Studies, French ^W, Geography, German ^W, Greek, Hebrew, International Relations, Italian ^W, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Russian ^W, Social Anthropology, Spanish ^W
^W Available also as 'With Integrated Year Abroad' degrees

Art History element of Joint M.A. Honours:

First Year: 20 credits: AH1001 **or** AH1003.
 Second Year: 40 credits: AH2001 **and** AH2002 - with passes at grade 11 or better in both.
 Third Year: 60 credits: AH3000 - AH4089, AH4100 - AH4899.
 Fourth Year: 60 credits: (AH4097 **or** AH4099), AH4000 - AH4089, AH4100 - AH4899;
or
 60 further credits: AH3000 - AH4089, AH4100 - AH4899.

No more than 60 credits may be taken from AH3000 - AH3999. In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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

Art History - Honours Level 2012/3 - August 2012

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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.

Art History (AH) Modules

AH3116 Aspects of American Art in the Twentieth Century			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Planned timetable:	11.00 am - 1.00 pm Tue and either 11.00 am or 12 noon Fri.		
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 conceptualised historically, culturally, and ideologically through a close study of the visual material.			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 seminar.		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr T Normand		
Lecturer(s)/Tutor(s):	Dr T Normand		

AH3122 The British Country House, 1650 - 1800				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	12.00 noon - 2.00 pm and either 3.00 pm or 4.00 pm Fri.			
<p>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.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof R Fawcett			
Lecturer(s)/Tutor(s):	Prof R Fawcett			

AH3130 Approaches to Art History				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon - 1.00 pm Mon and either 3.00pm - 5.00 pm Tue or 11.00 am - 1.00 pm Wed			
<p>This 30-credit module provides an introduction to the most significant critical approaches employed in art history. It is designed to encourage students to consider new ways in which they might think about art, society and culture. Themes range from aesthetics, semiotics, psychoanalysis, feminism and phenomenology, to connoisseurship and iconography.</p>				
Programme module type:	Compulsory for Single Honours Art History. Optional for Joint Honours Art History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A Rider, Dr K Rudy			
Lecturer(s)/Tutor(s):	Dr A Rider, Dr K Rudy			

Art History - Honours Level 2012/3 - August 2012

AH4087 Aspects of Surrealism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	3.00 pm - 5.00 pm Tue and either 11.00 am or 12.00 noon Thu.			
<p>This module traces the history of the radical avant-garde collective known as the Surrealists from the end of WWI until the beginning of WWII. Through a consideration of key figures in the movement, such as Andre Breton, Max Ernst, Salvador Dali, Man Ray, and Meret Oppenheim, the course will consider the key elements of Surrealist practice: 1) the attempt to bridge the gap between art and life; 2) re-defining and criticising the modern world; 3) suggesting new forms of collective and individual subjectivity which would be commensurate with modern life. A range of Surrealist art-making practices will be examined, from literary texts to the principles of automatism in writing and painting, collages, film, photography, objects, and the 'dream' painting.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr N Adamson			
Lecturer(s)/Tutor(s):	Dr N Adamson			

AH4097 60-Credit Honours Dissertation in Art History				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	As arranged with Supervisor and Honours Adviser			
<p>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 14,000 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. . (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Either AH4097 or AH4099 is compulsory for Single Honours Art History. Optional for Joint Honours Art History			
Learning and teaching methods and delivery:	Weekly contact: As arranged with Supervisor and Honours Adviser			
	Scheduled learning: 8 hours		Guided independent study: 592 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Ms A Carruthers			
Lecturer(s)/Tutor(s):	Team taught			

AH4099 30-Credit Dissertation in Art History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	As arranged with Supervisor and Honours Adviser			
<p>The dissertation will be valued at 30 credits and completed over two semesters. It will be a minimum of 6,000 words, and in no circumstances more than 8,000 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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Either AH4097 or AH4099 is compulsory for Single Honours Art History. Optional for Joint Honours Art History			
Anti-requisite(s):	AH4097			
Learning and teaching methods and delivery:	Weekly contact: As arranged with Supervisor and Honours Adviser			
	Scheduled learning: 8 hours		Guided independent study: 292 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Ms A Carruthers			
Lecturer(s)/Tutor(s):	Team taught			

AH4130 Realism and Symbolism in Russian Art 1860 - 1910				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm Mon, 9.00 am Tue and either 9.00 am or 10.00 am Wed.			
<p>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.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J Howard			
Lecturer(s)/Tutor(s):	Dr J Howard			

Art History - Honours Level 2012/3 - August 2012

AH4133 Venetian Art in the Age of Reform			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	9.00 am and 4.00 pm Mon and either 12.00 noon or 2.00 pm Mon.		
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.			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar.		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof P Humfrey		
Lecturer(s)/Tutor(s):	Prof P Humfrey		

AH4142 Aspects of Modern Photography, 1910 - 1950			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	3.00 pm - 5.00 pm Tue and either 11.00 am Thu or 12.00 noon Thu.		
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.			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr N Adamson		
Lecturer(s)/Tutor(s):	Dr N Adamson		

AH4147 Classicism in Western Art: The Legacy of Greece and Rome				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Tue and either 10.00 am or 11.00 am Wed			
<p>This module examines the role of Greek and Roman civilisation in shaping the arts and ideas of western culture. The topics expand from the Middle Ages to the present day, effectively spanning the main period divisions of art history. Broadly oriented geographically and chronologically, the module considers definitions of the classical, permutations and appropriations of classical forms and ideals, as well as changing attitudes to the classical past. The classical inheritance in terms of both style and iconography is examined in a variety of selected studies drawn from across Europe, focusing mainly on sculpture and painting.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Dr G Kouneni			
Lecturer(s)/Tutor(s):	Dr G Kouneni			

AH4148 Orientalism and Visual Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Availability restrictions:				
Planned timetable:	11.00 am - 1.00 pm Wed and either 9.00 am or 11.00 am Thu.			
<p>In this module we examine Orientalist art and the culture of travel from a post-colonial perspective. As well as the work of renowned artists including Ingres, Delacroix, Girome, J.F. Lewis, and Matisse we will address photography, international exhibitions, cross-cultural dressing, travel literature and film. Diverse European constructions of the exotic Orient will be examined including the contribution of women Orientalists. In this module, the European canon of Orientalism is resituated through the introduction of counter-narratives and alternative images made by North African and Ottoman artists and patrons.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 15%, Practical Examinations = 0%, Coursework = 85%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr L Gartlan			
Lecturer(s)/Tutor(s):	Dr L Gartlan			

Art History - Honours Level 2012/3 - August 2012

AH4151 Architecture and Culture in Rome, c. 1564 - 1766			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	3.00 pm - 5.00 pm Mon and either 10.00 am or 11.00 am Tue.		
<p>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 centralised 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.</p> <p>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.</p>			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr F Barry		
Lecturer(s)/Tutor(s):	Dr F Barry		

AH4152 To School? Learning: Artistic Interpretations and Architectural Solutions				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Mon, 9.00 am Tue and either 9.00 am or 10.00 am Wed.			
<p>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.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J Howard			
Lecturer(s)/Tutor(s):	Dr J Howard			

AH4162 Decorating and Furnishing the Country House, 1700-1830				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am Thu and either 12.00 noon or 1.00pm Thu			
<p>This module will analyse the 'fitting up' of the country house in the UK between 1700 and 1830. It will consider plan, room use and fixtures such as staircases and chimneypieces before making detailed study of floors, walls, lighting and the fireplace as focal point of the public room. Picture hanging, plasterwork, furniture and upholstery will be given attention as part of the decoration of Palladian, Rococo, Neoclassical and early nineteenth-century interiors. There will be special case studies on subjects such as wallpaper and the 'backstairs' areas of the house will be included as a significant part of the module.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Mr D Jones			
Lecturer(s)/Tutor(s):	Mr D Jones			

Art History - Honours Level 2012/3 - August 2012

AH4166 Histories of Photography, 1835 - 1905			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	11.00 am - 1.00 pm Wed and either 9.00 am or 11.00 am Thu.		
<p>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 war 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.</p>			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar.		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 15%, Practical Examinations = 0%, Coursework = 85%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr L Gartlan		
Lecturer(s)/Tutor(s):	Dr L Gartlan		

AH4167 Symbolism, Decadence and Modernity			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Availability restrictions:			
Planned timetable:	10.00 am Wed and 12.00 noon Thu and either 11.00 am or 12.00 noon Fri.		
<p>Exploring the Symbolist movement from an international perspective, this module will cover groups including the Nabis, the Italian Divisionists, and the British Aesthetic Movement, setting them in the context of contemporary aesthetic, scientific and social debates. Until recently, histories of Symbolism isolated a few stylistically experimental figures such as Munch, Gauguin and Klimt from the messier melting-pot of misogyny, nationalism and mystical fervour. This module confronts head-on the movement's uncomfortable blend of tradition and modernity, stylistic innovation and thematic obsessions. Students will explore themes including dream and nightmare, spirituality and the occult, nationalism and myth, evolution and degeneration, sexuality and the femme fatale. In the spirit of the fin-de-siecle 'total art work', we will pay particular attention to the crossovers between text and image, and between the 'fine' and 'decorative' arts.</p>			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar.		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr L Goddard		
Lecturer(s)/Tutor(s):	Dr L Goddard		

AH4170 Art, Piety and Performance: Charitable Institutions in Early Modern Venice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am - 12 noon Mon and either 10.00 am or 11.00am Tue			
<p>During the Early Modern period, an elaborate network of charitable institutions developed in Venice. The scuole, self-governing lay brotherhoods, and the ospedali, state-run hospitals, were distinctive social institutions, and the source of an important and characteristic type of patronage, commissioning works of art from the major artists of the period, such as Gentile and Giovanni Bellini, Carpaccio, Titian, Sansovino, Tintoretto, Palladio and Giambattista Tiepolo, among others. These institutions often staged public spectacles and performed charitable acts within a highly-regulated civic environment, playing an important role in the civic and religious ritual of Venice. This module explores how art and architectural projects advanced the devotional and charitable claims of Venetian confraternities and hospitals during the Early Modern period, focusing on the role played by these institutions in urban life and in perpetuating the 'myth of Venice'.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Dr L Moretti			
Lecturer(s)/Tutor(s):	Dr L Moretti			

AH4173 Architecture and its Image. From Brunelleschi to Palladio				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Availability restrictions:				
Planned timetable:	10.00 am - 12 noon Mon and either 10.00 am or 11.00am Tue			
<p>The module explores the different ways in which architecture was represented during the Italian Renaissance, looking at some of the finest buildings ever created by some of the most innovative architects, which influenced European and American architecture for centuries. Starting with some well-known representations of imaginary buildings, or 'ideal architecture', we will consider depictions of temporary structures and architectural projects in medals and bas-relief, as well as how architecture was illustrated in sketches, models, workshop drawings, paintings, maps, and described in texts. The core of the module will be a study of actual buildings in relation to their simulacra. Artists covered will include Filippo Brunelleschi, Leon Battista Alberti, Andrea Mantegna, Piero della Francesca, Vittore Carpaccio, Jacopo Bellini, Donato Bramante, Raphael, Baldassarre Peruzzi, Sebastiano Serlio, Giulio Romano, Michelangelo, Jacopo Sansovino, Andrea Palladio and others.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Dr L Moretti			
Lecturer(s)/Tutor(s):	Dr L Moretti			

Art History - Honours Level 2012/3 - August 2012

AH4175 Luxury Goods in the Middle Ages				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am and either 2.00 pm or 3.00 pm Fri.			
<p>In the wake of the Black Death and the upheaval it caused, a new social order formed. Seaports in Italy, France, the Netherlands, and Britain flourished as merchants began trading in luxury goods. In doing so, they developed global markets, and they helped to stimulate a new economy based on trade rather than birthright. Although the courts of Europe had always commissioned great works of art and the accoutrements of a rich life, the nouveaux riches of towns such as Paris and Bruges, many of whom were involved in this new economy as traders, began consuming exotic goods and works of art.</p> <p>This module considers the economic background to sweeping changes in the late middle ages; to a new distribution of wealth; and to the development new trade routes that brought raw materials and finished luxury items from Asia, Africa, the Baltic, and beyond. We will consider many of what have been called 'minor arts', including automata and mechanical marvels developed in late medieval courts, as well as many surviving paintings commissioned by the nouveaux riches, which often depict the kinds of consumer goods they were also purchasing. We will examine the propositions that images both constructed and reflected identity, and that they both revealed and stimulated a desire for exotic products. While some of our readings will address Italy, we will focus attention on France, the Netherlands, and the British Isles.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Rudy			
Lecturer(s)/Tutor(s):	Dr K Rudy			

AH4201 British Design and Decorative Art, 1750 - 1915				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	10.00 am - 12.00 noon and either 3.00 pm or 4.00 pm Thu.			
<p>Surveying 165 years of design and decorative arts, the module focuses on the major design movements. This was a period of great change, when production increasingly moved from small workshops to factories, though the timing of this transformation varied in different crafts. The module looks at the history of style, the development of production techniques, the dissemination of ideas and fashions, and the changing role of the consumer of designed goods.</p>				
Programme module type:	Optional for Art History			
Anti-requisite(s):	AH3101			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Ms A Carruthers			
Lecturer(s)/Tutor(s):	Ms A Carruthers			

AH4205 Byzantium, 330 - 1453: Art, Religion and Imperial Power				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	3.00 pm - 5.00 pm Thu and either 10.00 am or 11.00 am Fri			
<p>This module explores the vibrant visual culture of the Byzantine Empire from the founding of Constantinople in 330 AD to the fifteenth century when the imperial capital succumbed to the might of the Ottoman Turks. It is an exciting period which sees the formation of a distinct Christian art and architecture drawing upon the religious traditions of Judaism and pagan Rome on one hand, and that of imperial power on the other. We will examine a wide range of media (mosaics, frescoes, icons, ivories and luxury objects) in order to gain a rounded view of the art of the Byzantine Empire and we will consider the function of images and objects in specific historical contexts. We will explore the grandeur of Hagia Sophia in Instabul, the mosaics in Constantinople, Ravenna and San Marco in Venice, the extraordinary skills of ivory workers, enamellists and illuminators of manuscripts, and we will relate these treasures to the social, cultural and religious dimensions of this dynamic culture.</p> <p>Particular emphasis will be placed on the theory and function of icons or holy images, the use of art to project imperial ideology, the relationship between art and ritual and the appropriation of Byzantine forms and iconography for ideological purposes outside the empire.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour tutorial.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Dr G Kouneni			
Lecturer(s)/Tutor(s):	Dr G Kouneni			

School of Biology

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

Other information: 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.*

Behavioural Biology – Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2102 and BL2105 - with passes at grade 11 or better in both.
Third Year:	10 credits: BL3000 or BL3321; 50 credits: BL3307 and BL3319 and BL3320; 60 credits in three of: BL3302, BL3308, BL3309, BL3313, BL3315, BL3316, BL3318.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL3400, BL4232, BL4234, BL4235, BL4256, BL4258, BL4263, BL4280 - BL4286, (one of BL4291, BL4292, ID4001), to a total of between 120 and 125 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

Biochemistry - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2101 and BL2104 - with passes at grade 11 or better in both.
Third Year:	80 credits: BL3301 and BL3302 and BL3303 and BL3310; 40 credits in two of: BL3311 - BL3313.
Fourth Year:	15 credits: BL4210; At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL4211 - BL4216, BL4221 - BL4224, BL4230, BL4273, (one of BL4220, BL4255, BL4291, BL4292, ID4001) to a total of 120 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

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Biology – Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits in two of: BL2000 - BL2199 - with passes at grade 11 or better in both.
Third Year:	10 credits: BL3320; 10 credits: BL3000 or BL3321; 100 further credits in five of: BL3000 - BL3399, as approved by the Degree Controller and Director of Teaching.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL3400, BL4210 - BL4289, (one of BL4291, BL4292, ID4001), as approved by the Degree Controller and Director of Teaching, to a total of between 120 and 125 credits for the year.

Biology - Joint Honours B.Sc.

Biology and one of: Economics, Geology, Mathematics, Psychology, Statistics

Biology element of Biology - Joint Honours B.Sc. (except those defined below):

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits in two of: BL2000 - BL2199 - with passes at grade 11 or better in both.
Third Year:	10 credits: BL3320; 10 credits: BL3000 or BL3321; 40 further credits in two of: BL3000 - BL3399, as approved by the Degree Controller and Director of Teaching.
Fourth Year:	Between 60 and 65 credits in four of: BL3400, BL4000 - BL4289, (one of BL4291, BL4292, ID4001).

Biology and Geology - Joint Honours B.Sc.

First Year:	80 credits: BL1101 and BL1102 and ES1001 and ES1002
Second Year:	120 credits: BL2102 and BL2105 and ES2001 and ES2002 - with passes at 11 or better in all. (Including participation on the 2 nd year Earth Sciences field course).
Third Year:	80 credits: BL3000 and BL3320 and ES3001 and ES3004 and ES3008 and ES3005 40 credits in two of: BL3307, BL3308, BL3316, BL3309, BL3318, BL3319.
Fourth Year:	75 credits: BL4220 and ES4002 and ID4442. 15 credits: ES3007 or ES3009 or ES4007 or ID4001. 30 further credits in two of: BL4249, BL4254 - BL4256, BL4260, BL4262, BL4266, BL4268, BL4270, BL4272, BL4275, BL4280, BL4286, BL4301, ID4001.

Biology element of Biology and Logic & Philosophy of Science - Joint Honours B.Sc.:

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits in two of: BL2000 - BL2199 - with passes at grade 11 or better in both.
Third Year:	10 credits: BL3320; 10 credits: BL3000 or BL3321; 40 further credits in two of: BL3000 - BL3399, as approved by the Degree Controller and Director of Teaching.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL3400, BL4000 - BL4289, BL4291, BL4292, ID4001, if necessary, to a total of between 60 and 65 credits in Biology for the Year.

Biology - Joint Honours B.Sc. (continued)

Biology element of Biology and Mathematics/Statistics - Joint Honours B.Sc.:

First Year: 40 credits: BL1101 **and** BL1102.
 Second Year: 60 credits in two of: BL2000 - BL2199 - with passes at grade 11 or better in both.
 Third Year: 10 credits: BL3320;
 Between 30 and 60 further credits: BL3000 - BL3399, as approved by the Degree Controller and Director of Teaching.
 Fourth Year: At least 45 credits: BL4200 **or** BL4201 **or** BL4202;
 Further credits: BL3400, BL4210 - BL4289, (one of BL4291, BL4292, ID4001) if necessary, to a total of at least 60 credits for the year and between 105 and 135 credits across Third and Fourth Years.

Biology element of Biology and Psychology (with BPS recognition) - Joint Honours B.Sc.:

First Year: 40 credits: BL1101 **and** BL1102.
 Second Year: 60 credits in two of: BL2000 - BL2199 - with passes at grade 11 or better in both.
 Third Year: 10 credits: BL3320;
 Between 30 and 40 further credits: BL3000 - BL3399, as approved by the Degree Controller and Director of Teaching.
 Fourth Year: At least 45 credits: BL4210 - BL4289, (one of BL4291, BL4292, ID4001), as approved by the Degree Controller.
 In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Biology 'with'... - Honours B.Sc.

Biology with Arabic

Biology Major element of B.Sc. Honours Biology with a Modern Language:

First Year: 40 credits: BL1101 **and** BL1102.
 Second Year: 60 credits in two of: BL2000 - BL2199 - with passes at grade 11 or better in both.
 Third Year: 10 credits: BL3320;
 10 credits: BL3000 **or** BL3321;
 80 further credits in four of: BL3000 - BL3399.
 Fourth Year: At least 45 credits: BL4200 **or** BL4201 **or** BL4202;
 20 further credits: BL3000 - BL3400;
 Further credits: BL4210 - BL4289, (one of BL4291, BL4292, ID4001) if necessary, to a total of 80 credits for the year.
 In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

... 'with' Biology - Honours B.Sc.

Psychology with Biology

Biology minor element of Psychology with Biology - Honours B.Sc.:

First Year: 40 credits: BL1101 **and** BL1102.
 Second Year: 60 credits: BL2000 - BL2199 - with passes at grade 11 or better in both.
 Third Year: Between 20 and 40 credits: BL3000 - BL3399 as approved by the Degree Controller and Director of Teaching.
 Fourth Year: At least 30 credits: BL4210 - BL4289, to a total of between 60 and 80 credits from BL modules across Third and Fourth Years.
 In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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Biomolecular Science - Single Honours B.Sc.

First Year: 80 credits: BL1101 and BL1102 and CH1401 and CH1601.

Second Year: 120 credits: BL2101 and BL2104 and CH2501 and CH2601 - with passes at grade 11 or better in all.

Third Year: 120 credits: BL3301 and BL3310 and BL3312 and CH3431 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716.

Fourth Year: 55 credits: BL4210 and CH4442;
45 credits in three of: BL4212, BL4213, BL4215, BL4216, BL4222, BL4223;
20 credits in two of: CH4612, CH4613, CH4614, CH5611, CH5612, CH5613, CH5614, CH5616.

Alternatively, by special arrangement only:
75 credits: BL4201 and BL4210;
50 credits in five of: CH4612, CH4613, CH4614, CH5611, CH5612, CH5613, CH5614, CH5616.

This programme is accredited by the Royal Society of Chemistry (RSC) for professional membership.

Biomolecular Science - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year: 10 credits: CH1202;
120 credits: BL2101 and BL2104 and CH2501 and CH2601 - with passes at grade 11 or better in all.

Third Year: 120 credits: BL3301 and BL3310 and BL3312 and CH3431 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716.

Fourth Year: 55 credits: BL4210 and CH4442;
45 credits in three of: BL4212, BL4213, BL4215, BL4216, BL4222, BL4223;
20 credits in two of: CH4612, CH4613, CH4614, CH5611, CH5612, CH5613, CH5614, CH5616.

Alternatively, by special arrangement only:
75 credits: BL4201 and BL4210;
50 credits in five of: CH4612, CH4613, CH4614, CH5611, CH5612, CH5613, CH5614, CH5616.

This programme is accredited by the Royal Society of Chemistry (RSC) for professional membership.

Cell Biology - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2101 and BL2104 - with passes at grade 11 or better in both.
Third Year:	40 credits: BL3302 and BL3303; 20 credits: BL3301 or (BL3320 with BL3321); 60 credits in three of: BL3310 - BL3313, BL3315.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL4210*, BL4211 - BL4216, BL4220, BL4221, BL4223, BL4224, BL4230 - BL4234, BL4273, (one of BL4291, BL4292, ID4001) to a total of 120 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

**BL4210 should normally be taken by any student whose project supervisor is in the Biomedical Sciences Research Complex (BSRC).*

Ecology & Conservation - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2102 and BL2105 - with passes at grade 11 or better in both.
Third Year:	80 credits: BL3000 and BL3307 and BL3308 and BL3309 and BL3320; 40 credits in two of: BL3316, BL3318, BL3319.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL3400, BL4220, BL4249, BL4251, BL4254, BL4255, BL4257 - BL4260, BL4265 - BL4273, BL4275, BL4282, BL4285, BL4286; (one of BL4291, BL4292, ID4001) to a total of between 120 and 125 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 – BL4700, with the permission of the Degree Controller and Director of Teaching.

Environmental Biology - Joint Honours B.Sc.

Environmental Biology and either Environmental Geoscience or Geography	
Environmental Biology and Environmental Geoscience - Joint Honours B.Sc.:	
Third Year:	80 credits: BL3000 and BL3320 and ES3001 and ES3004 and ES3008 and ES3005 40 credits in two of: BL3307, BL3308, BL3309, BL3316, BL3318, BL3319.
Fourth Year:	75 credits: BL4220 and ES4002 and ID4442. 15 credits: ES3007 or ES3009 or ES4007 or ID4001. 30 further credits in two of: BL4249, BL4254 - BL4256, BL4260, BL4262, BL4266, BL4268, BL4270, BL4272, BL4275, BL4280, BL4286, BL4301, ID4001.
Environmental Biology element of Environmental Biology and Geography -Joint Honours B.Sc.:	
First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2102 and BL2105 - with passes at grade 11 or better in both.
Third Year:	10 credits: BL3320; Between 50 and 60 credits: BL3000, BL3307 - BL3309, BL3316, BL3318, BL3319.
Fourth Year:	Between 60 and 65 credits: BL3400, BL4220, BL4251, BL4260, BL4265 - BL4275, BL4277, BL4286, (one of BL4291, BL4292, ID4001), except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

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Evolutionary Biology - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2102 and BL2105 - with passes at grade 11 or better in both.
Third Year:	30 credits: BL3307 and BL3320; 10 credits: BL3000 or BL3321; 80 credits in four of: BL3302, BL3308, BL3309, BL3313, BL3315, BL3316, BL3318, BL3319.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL3400, BL4251, BL4272 - BL4275, BL4280, BL4282, BL4284, BL4286, (one of BL4291, BL4292, ID4001) to a total of between 120 and 125 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

Marine Biology - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2102 and BL2105 - with passes at grade 11 or better in both. 60 further credits in two of: BL2000 - BL2199.
Third Year:	60 credits: BL3000 and BL3308 and BL3318 and BL3320; 60 credits in three of: BL3307, BL3309, BL3313, BL3315, BL3316, BL3319.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; 45 credits in three of: BL4249 - BL4263; Up to 15 credits: BL4248, BL4264 - BL4269, BL4273, BL4274, BL4281, BL4286; Up to 15 credits: BL4291, BL4292, BL4301, ID4001; Further credits: BL4249 - BL4263 if necessary, to a total of 120 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

Molecular Biology - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2101 and BL2104 - with passes at grade 11 or better in both.
Third Year:	100 credits: BL3301 and BL3302 and BL3303 and BL3310 and BL3311; 20 credits: BL3312 or BL3315.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; 15 credits: BL4210; Further credits: BL4211 - BL4216, BL4221, BL4223, BL4224, BL4230, (one of BL4219, BL4220, BL4255, BL4273, BL4291, BL4292, ID4001), to a total of 120 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

Neuroscience - Single Honours B.Sc.

First Year:	80 credits: BL1101 and BL1102 and PS1001 and PS1002.
Second Year:	90 credits: BL2101 and PS2001 and PS2002 - with passes at grade 11 or better; 30 credits: BL2104 or BL2106 - with a pass at grade 11 or better.
Third Year:	80 credits: BL3303 and BL3313 and PS3032 and PS3035 and PS3037 and , normally PS3038. Between 30 and 40 further credits: BL3000 - BL3399, PS3000 - PS3999, PS4040, with the approval of the Degree Controller.
Fourth Year:	At least 30 credits: BL4200 or BL4201 or PS4299; Further credits: BL4000 - BL4199, BL4203 - BL4289, (one of BL4291, BL4292, ID4001), PS4060 - PS4999, with the approval of the Degree Controller, to a total of 240 credits across Third and Fourth Years.

Zoology - Single Honours B.Sc.

First Year:	40 credits: BL1101 and BL1102.
Second Year:	60 credits: BL2102 and BL2106 - with passes at grade 11 or better in both.
Third Year:	20 credits: BL3000 and BL3320; 100 credits in five of: BL3302, BL3307 - BL3309, BL3311, BL3313, BL3315, BL3316, BL3318, BL3319.
Fourth Year:	At least 45 credits: BL4200 or BL4201 or BL4202; Further credits: BL3400, BL4230 - BL4235, BL4247 - BL4251, BL4256 - BL4260, BL4263, BL4265 - BL4268, BL4272 - BL4277, BL4280 - BL4282, BL4284 - BL4286, BL4290, BL4301, (one of BL4291, BL4292, ID4001), to a total of between 120 and 125 credits for the year, except that 15 of these credits may be taken from another module in the range BL4210 - BL4700, with the permission of the Degree Controller and Director of Teaching.

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

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Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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 & Teaching in Science (Section 23)

Biology (BL) Modules

BL3000 Field Course			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Planned timetable:	1-week residential course. This module takes place during the summer vacation.		
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.			
Programme module type:	Compulsory for Ecology and Conservation, Marine Biology, and Zoology. If BL3308 or BL3309 is taken then compulsory for all Biology degree programmes. Optional for Behavioural Biology, Biology and Geology, Biology, Biology and Economics, Biology and Mathematics or Statistics, Biology with French, Biology and/with Psychology, Environmental Biology and Geography, Evolutionary Biology.		
Co-requisite(s):	BL3308 or BL3309	Anti-requisite(s):	BI3321
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department		
	Scheduled learning: 50 hours	Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof D Paterson		
Lecturer(s)/Tutor(s):	Prof Paterson, Dr Shuker, Dr J Graves, Dr Defew, Dr Gollety, Mr Edwards.		

BL3301 Protein Structure and Function				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	Lectures: 10.00 am Mon, Wed and Fri. Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology. Optional for Cell Biology, Biology, Neuroscience, and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2101 or BL2104			
Required for:	BL4212, BL4215, BL4223			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 40 hours		Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 83%, Practical Examinations = 0%, Coursework = 17%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr U Schwarz-Linek			
Lecturer(s)/Tutor(s):	Dr U Schwarz-Linek, Prof G Taylor, Prof R Griffiths			

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BL3302 Gene Regulation			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Planned timetable:	Lectures: 12.00 noon Mon, Wed, Fri. Practicals: to be arranged.		
<p>This module builds on material covered in BL1201 Molecular Biology and BL2104 Biochemistry and 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 organisation, 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.</p>			
Programme module type:	Compulsory for Biochemistry, Cell Biology, Molecular Biology. Optional for Behavioural Biology, Biology, Evolutionary Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	Normally BL2104	Required for:	BL4223
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.		
	Scheduled learning: 39 hours	Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%		
	As used by St Andrews: Coursework = 34%, Written Examination = 66%		
Module Co-ordinator:	Dr S Unkles		
Lecturer(s)/Tutor(s):	Dr D Barker, Dr P Coote, Dr D Ferrier, Dr A Koussounadis, Dr S MacNeill, Prof M Ryan, Dr J Sleeman, Dr S Unkles, Prof M White.		

BL3303 Membranes and Cell Communication				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	Lectures: 9.00 am Mon, Wed and Fri. Practicals: to be arranged.			
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) de-sensitisation 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.				
Programme module type:	Compulsory for Biochemistry, Cell Biology, Molecular Biology, Neuroscience. Optional for Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2101	Required for:	BL4224	
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 41 hours		Guided independent study: 159 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Dr R Ramsay, Dr G Prescott, Dr J Ingledew, Dr J Sleeman, Dr T Smith			

BL3307 Evolution				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	Lectures: 9.00 am Tue and Thu, 11.00 am Fri. Practicals: to be arranged.			
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. Practicals will involve computer simulations to investigate a range of evolutionary phenomena, plus use of molecular markers to examine population structure and speciation.				
Programme module type:	Compulsory for Behavioural Biology, Ecology and Conservation, Evolutionary Biology. Optional for Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 34 hours		Guided independent study: 166 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Prof T Meagher			
Lecturer(s)/Tutor(s):	Prof T Meagher, Dr D Ferrier, Dr J Graves, Dr D Barker, Prof K Laland, Prof M Ritchie,			

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BL3308 Aquatic Ecology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	Lectures: 11.00 am Mon, Tue and Thu. Practicals: to be arranged.			
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. This module involves a residential field trip to Kindrogan field station in the Scottish Highlands.				
Programme module type:	Compulsory for Behavioural Biology, Ecology and Conservation, Marine Biology. Optional for Biology, Environmental Biology and Geology, Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Co-requisite(s):	BL3000			
Required for:	BL4301: (BL2105, BL3308, BL3318 or equivalent preferred but not essential)			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 53 hours		Guided independent study: 147 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 14%, Coursework = 20%			
	As used by St Andrews: Coursework = 34%, Written Examinations = 66%			
Module Co-ordinator:	Dr I Matthews			
Lecturer(s)/Tutor(s):	Dr I Matthews, Prof C Todd, Dr P Miller, Dr R Aspden.			

BL3309 Ecosystems and Conservation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 12.00 noon Mon, Wed and Fri. Practicals: to be arranged.			
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.				
Programme module type:	Compulsory for Ecology and Conservation. Optional for Behavioural Biology, Biology, Environmental Biology and Geology, Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2105 or SD2001		Co-requisite(s):	BL3000
Required for:	BL4254, BL4266, BL4268			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr S Northridge			
Lecturer(s)/Tutor(s):	Dr S Northridge, Dr I Matthews, Prof T Meagher			

BL3310 Bioenergetics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 11.00 am Mon, Tue and Thu. Practicals: to be arranged.			
The conversion of one form of energy into another by a biochemical process is at the centre of all life. This module studies the biological systems for conserving energy from food oxidation and light absorption (photosynthesis) and the conversion of the resulting redox energy into chemical energy in the pyrophosphate bonds of ATP. The module also considers electron transfer processes in biology and the energetics of transport processes. Chemiosmotic theory and the principles are considered in detail as are the structure and function of electron and proton transfer systems of energy transducing systems. Practical classes will introduce the student to the methods used in this field of study. The module will comprise twenty lectures, eight hours tutorials/seminars in total, and twelve hours in practical classes.				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology. Optional for Cell Biology Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2104	Required for:	BL4222	
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr J Ingledew			
Lecturer(s)/Tutor(s):	Dr J Ingledew, Dr R Ramsay			

BL3311 Infection and Disease				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 9.00 am Tue and Thu and 11.00 am Fri. Practicals: to be arranged.			
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.				
Programme module type:	Compulsory for Molecular Biology. Optional for Biochemistry, Cell Biology, Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2101 and BL2104			
Required for:	BL4211, BL4213			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 38 hours		Guided independent study: 162 hours	
Assessment pattern:	As defined by QAA: Written Examination = 90%, Practical Examination = 0%, Coursework = 10%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Dr P Coote, Prof R Randall, Dr T Smith, Dr B Precious, Prof G Taylor, Prof R Elliott, Dr D Jackson, Prof M Ryan			

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BL3312 Pharmacology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 12.00 noon Mon, Wed and Fri. Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Biomolecular Science, Molecular Biology. Optional for Biochemistry, Cell Biology, Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2101	Required for:	BL4234	
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 37 hours		Guided independent study: 163 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 20%, Coursework = 14%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr R Ramsay			

BL3313 Neuroscience				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 9.00 am Mon, Wed and Fri. Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology, Neuroscience. Optional for Behavioural Biology, Biochemistry, Cell Biology, Evolutionary Biology, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2101			
Required for:	BL4230, BL4231, BL4232, BL4234, BL4235			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Prof F Gunn-Moore			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Prof K Sillar, Dr G Miles, Dr W Heitler, Dr W Li			

BL3315 Developmental Biology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 10.00 am Mon, Wed and Fri. Practicals: to be arranged.			
<p>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 <i>Drosophila</i>. 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. <i>Drosophila</i> embryonic development and the hormonal control of metamorphosis in flies and amphibians will also be studied.</p>				
Programme module type:	Optional for Behavioural Biology, Neuroscience, Cell Biology, Evolutionary Biology, Molecular Biology, Marine Biology, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars, plus practicals.			
	Scheduled learning: 47 hours		Guided independent study: 153 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 34%, Coursework = 0%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr D Ferrier			
Lecturer(s)/Tutor(s):	Dr M Milner, Dr D Ferrier, Dr G Miles, Prof Sillar, Dr G Middleton			

BL3316 Animal Plant Interactions				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	Lectures: 12.00 noon Tue, 11.00 am Wed, 12.00 noon Thu. Practicals: to be arranged.			
<p>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 specialisations 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.</p>				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: lectures and seminars, plus practicals.			
	Scheduled learning: 42 hours		Guided independent study: 158 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 22%, Coursework = 12%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Prof P Willmer			
Lecturer(s)/Tutor(s):	Prof P Willmer, Prof G Ruxton, Prof S Hubbard, Dr A Karley, Dr J Wishart, Dr S Healy			

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BL3318 Biology of Marine Organisms				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 12.00 noon Tue, 11.00 am Wed and Fri. Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Marine Biology. Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2102 and BL2105			
Required for:	BL4257, BL4259, BL4260, BL4301: (BL2105, BL3308, BL3318 or equivalent preferred but not essential)			
Learning and teaching methods and delivery:	Weekly contact: lectures and seminars, plus practicals.			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr V Smith			
Lecturer(s)/Tutor(s):	Dr V Smith, Prof C Todd, Prof A Brierley, Prof P Hammond, Prof I Boyd, Dr C Gollety, Dr A Onjanguren, Dr L Rendell, Dr C Smith, Dr S Heinrich			

BL3319 Animal Behaviour: A Quantitative Approach				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	Lectures: 11.00 am Mon, Tue and Thu. Practicals: to be arranged.			
<p>This module is designed to provide a broad and multifaceted perspective on animal behaviour, emphasising contemporary theoretical, mathematical and statistical approaches to the discipline. 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. The course contains extensive material of a formal theoretical nature, and emphasises quantitative skills throughout. Students will be introduced to new mathematical and statistical approaches within the field.</p>				
Programme module type:	Compulsory for Behavioural Biology. Optional for Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Required for:	BL4258, BL4263			
Learning and teaching methods and delivery:	Weekly contact: lectures and seminars, plus practicals.			
	Scheduled learning: 34 hours		Guided independent study: 166 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 7%, Coursework = 27%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Prof K Laland			
Lecturer(s)/Tutor(s):	Prof K Laland, Dr W Hoppitt, Dr M Webster, Dr L Rendell, Dr N Boogert, Prof P Slater, Dr C Templeton, Dr S Healy, Prof M Ritchie, Prof K Sillar, Dr V Janik			

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BL3320 Practical Statistics for Biologists				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
Few biologists are statisticians but all biologists use statistics. This series of workshops is designed to build confidence in organising and analyzing data to address biological questions efficiently. The module will help you learn how to identify statistical approaches and how to manage and analyse data in code driven statistical programming packages. An introductory workshops will cover basic concepts and practical training that will be used in a choice of specific workshops that cover applications across the range of Biology.				
Programme module type:	Compulsory for Behavioural Biology, Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes. Optional for Cell Biology, Neuroscience			
Required for:	BL4273			
Learning and teaching methods and delivery:	Weekly contact: 2 x 2-hour practicals for each of 4 weeks.			
	Scheduled learning: 24 hours		Guided independent study: 76 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof G Ruxton			
Lecturer(s)/Tutor(s):	Dr G Ruxton, Ms L Sibbett, Dr D Barker			

BL3321 Advanced Critical Analysis Reading Party				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	1 week in summer vacation just prior to Orientation week plus further meetings in semester			
An introductory residential module to Honours study for students studying Cell Biology, Neuroscience and Biology degrees held at the Burn between the resit diet and the start of semester 1. This module introduces students to the skill of critically analysing scientific literature and the methodology behind preparing research proposals. Students will work in groups to develop a grant proposal and present their ideas to a mock research grant panel. In response to detailed feedback students can improve their skills and finally submit an extended referees report on a real grant proposal.				
Programme module type:	Optional for Cell Biology, Neuroscience and all Biology Joint and Major/Minor degree programmes			
Co-requisite(s):	Any 3000-level BL module		Anti-requisite(s):	BL3000
Learning and teaching methods and delivery:	Weekly contact: see planned timetable entry above.			
	Scheduled learning: 40 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Dr J Sleeman, Dr G Prescott			

BL3400 Tropical Research and Field Study				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	4 weeks in field locations.			
<p>The module allows is for students studying with Ooeration Wallacea in terrestrial and marine environments for a minimum of four weeks during the summer vacation. 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.</p>				
Programme module type:	Optional for Behavioural Biology, Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practicals and occasional seminars.			
	Scheduled learning: 160 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 10%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Peddie			

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BL4200 Literature-based Research Project			
SCOTCAT Credits:	45	SCQF Level 10	Semester: Whole Year
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Either BL4200 or PS4050 compulsory for Biology and Psychology. BL4200 or BL4201 or PS4050 compulsory for Neuroscience. Optional for Behavioural Biology, Biochemistry, Biology, Cell Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Molecular Biology, Zoology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.		
Anti-requisite(s):	BL4201, BL4202, PS4060		
Learning and teaching methods and delivery:	Weekly contact: 1 dedicated meeting with supervisor per week, students should expect to spend the equivalent of 8 weeks full-time on this research project.		
	Scheduled learning: 22 hours	Guided independent study: 428 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof P Willmer		
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology		

BL4201 Experimental Research Project			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	BL4200 or BL4201 or PS4050 compulsory for Neuroscience. Optional for Behavioural Biology, Biochemistry, Biology, Cell Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Molecular Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes. May be taken for Biomolecular Science (conditions apply)		
Anti-requisite(s):	BL4200, BL4202		
Learning and teaching methods and delivery:	Weekly contact: 1 dedicated meeting with supervisor per week. Students should expect to spend the equivalent of 1 semester full-time conducting supervised research and completing the associated assessments. This time is either condensed into 1 semester or spread out over the academic year depending on the nature of the research and other module choices.		
	Scheduled learning: 320 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 35%, Coursework = 65%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof P Willmer		
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology		

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BL4202 Research Project in Museum Studies			
SCOTCAT Credits:	45	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
<p>The museum-based research projects entail the independent research of a topic appropriate for display in a Museum of Natural History, of interest to, and understandable by, the general public visiting the Bell-Pettigrew Museum. A 3000-word essay on the topic is prepared that prepares the academic and scientific background to the topic. The topic is then presented to the public through the construction of a museum display in a dedicated flat case at the entrance to the museum. A relevant leaflet and an interactive DVD are also prepared to compliment the display. Finally students give a presentation to a knowledgeable audience on the development of the research project. Students wishing to take this museum-based research project must have passed the module BL4291, Science, Museums and the Public.</p>			
Programme module type:	Optional for Behavioural Biology, Biochemistry, Biology, Cell Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Molecular Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL4291	Anti-requisite(s):	BL4200, BL4201
Learning and teaching methods and delivery:	Weekly contact: 1 dedicated meeting with supervisor per week, students should expect to spend the equivalent of 8 weeks full-time on this research project.		
	Scheduled learning: 320 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr M Milner		
Lecturer(s)/Tutor(s):	Dr M Milner		

BL4210 Practical Skills for Molecular Biology and Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology Optional for Cell Biology and all Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: Seminars and practicals.			
	Scheduled learning: 31 hours		Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Prof M Ryan			
Lecturer(s)/Tutor(s):	Prof M Ryan, Prof M White			

BL4211 Antimicrobials - Mode of Action and Resistance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3311			
Learning and teaching methods and delivery:	Weekly contact: Introductory lecture followed by 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examination = 50%, Practical Examination = 20%, Coursework = 30%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Dr P Coote			

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BL4212 How Enzymes Work				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>All cells depend on enzymes to catalyse the reactions that produce the energy required for life and that make and repair DNA, proteins and lipids. Understanding enzymes and their regulation underpins research on, for example, drug development. This module will study how the structures and molecular functions of selected examples enable the biological roles. Topics will include flavoproteins, DNA repair enzymes, nitric oxides synthases and other enzymes depending on the research interests of the academic staff. 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 enzymes.</p>				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3301			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Dr R R Ramsay			
Lecturer(s)/Tutor(s):	Dr R R Ramsay, Dr J Ingledew, Prof M White			

BL4213 Molecular Virology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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 maximise 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.</p>				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology, Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3311			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof R Randall			
Lecturer(s)/Tutor(s):	Prof R Randall, Dr Ryan, Prof Elliott, Dr Jackson.			

BL4215 Bacterial Virulence Factors				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3301			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 30%, Coursework = 30%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr U Schwarz-Linek			
Lecturer(s)/Tutor(s):	Dr U Schwarz-Linek			

BL4216 Structure-based Drug Discovery				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology Biology and all Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: Seminars, essay, and student presentations in teams representing imaginary drug companies.			
	Scheduled learning: 12 hours		Guided independent study: 138 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 80%, Coursework = 20%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof G Taylor			
Lecturer(s)/Tutor(s):	Prof G Taylor			

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BL4220 Geomicrobiology - from Gold Mines to Global Warming, how Microbes influence our Planet				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Biochemistry, Cell Biology, Ecology and Conservation, Molecular Biology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr S Unkles			
Lecturer(s)/Tutor(s):	Dr S Unkles			

BL4222 Metabolic and Clinical Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module extends the students' knowledge of human metabolism and applies it to pathologies. The syllabus includes: a study of the integration of whole body metabolic processes, discussion of the role of biochemistry in investigating and monitoring human disease, the methods of diagnosing and treating some common diseases. Topics will cover integration of whole body metabolism, starvation processes, diabetes, 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.</p>				
Programme module type:	Optional for Biochemistry, Biomolecular Science, and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3310			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 30%, Coursework = 30%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr W J Ingledew			
Lecturer(s)/Tutor(s):	Dr W J Ingledew, Dr R Ramsay and invited NHS staff.			

BL4223 Chromosome Replication and Genome Stability				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
Highly-efficiently chromosomal DNA replication is essential for all forms of cellular life on Earth and requires the complex interplay of a large range of protein factors in a temporally- and spatially-coordinated manner. In humans, defects in the replication process may lead to genetic disease or cancer. This module will summarise current knowledge of the enzymes and mechanisms of chromosomal DNA replication in bacterial, archaeal and eukaryotic cells with particular emphasis on exploring the diverse range of experimental systems and techniques used in the laboratory to probe the structure, function and regulation of the replication apparatus. Similarities and differences between cellular and viral DNA replication strategies will be explored and diverse aspects of the evolution of the replication machinery highlighted.				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology, and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL3301 and BI3302			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr S A MacNeill			
Lecturer(s)/Tutor(s):	Dr S A MacNeill			

BL4224 Molecular Mechanisms of Membrane Trafficking				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
Membrane trafficking mediates the transport of substances between different cellular organelles and the secretion of substances from cells. As such, regulation of membrane trafficking is applicable to all cell types, but especially to specialised secretory cells such as neurons, which secrete neurotransmitters and pancreatic beta-cells which secrete insulin. This module will consider how molecules control the movement of substances through the secretory pathway, but will focus on how cells regulate the release of contents. Within the module you will look at the proteins involved, the different experiments used to study the process and how model organisms are enhancing our understanding.				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3303			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and fieldwork.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examination = 25%, Practical Examination = 20%, Coursework = 55%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Dr G Prescott, Dr J Sleeman			

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BL4230 Neurodegeneration and Aging				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>In this module, students will develop a detailed understanding of molecular neuroscience. There will be three main sections. Firstly, how neurons stay alive (e.g. neurotrophic factor signalling cascades) is examined; then how neurons age (e.g. White matter thinning, Gliosis (neuroinflammation), 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. The module concentrates on three key areas relating to neurodegenerative processes. 1) How neurons stay alive, for example the neurotrophic factor signalling cascades 2) The aging nervous system: Changes that can 'prime' neurons for degeneration, degenerative disorders - risks, pathology, treatments. Including a practical session looking at aging murine brains (histology) and at aging neurons and glia in vitro 3) How the nervous system responds to neurodegenerative diseases, with particular focus on Alzheimer's disease. Work will be especially 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.</p>				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3313			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 14%, Coursework = 20%			
	As used by St Andrews: Coursework = 34%, Written Examination = 66%			
Module Co-ordinator:	Prof F Gunn-Moore			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Dr G Middleton			

BL4231 Neuromodulation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3313			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examination = 50%, Practical Examination = 25%, Coursework = 25%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof K Sillar			
Lecturer(s)/Tutor(s):	Prof K Sillar, Dr G Miles, Dr W Heitler			

BL4232 Neural Mechanisms of Predatory and Avoidance Behaviours				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Behavioural Biology, Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3313			
Learning and teaching methods and delivery:	Weekly contact: Seminars and occasional practical classes			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr W J Heitler			
Lecturer(s)/Tutor(s):	Dr W Heitler, Prof K Sillar			

BL4234 Synaptic Transmission				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Behavioural Biology, Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL3312 and BL3313			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and 2 practical classes.			
	Scheduled learning: 19 hours		Guided independent study: 131 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr W Li			
Lecturer(s)/Tutor(s):	Dr W Li, Prof K Sillar, Dr G Miles, Dr W Heitler			

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BL4235 Motoneurons: From Physiology to Pathology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module aims to provide in depth knowledge of key aspects of neuronal function and potential dysfunction by focussing on one of the most studied and best characterised classes of neurons in the central nervous system, motoneurons. The module will cover topics such as: the history of motoneurons in neuroscience research; the genetics controlling motoneuron development, the intrinsic electrical properties of motoneurons; synaptic inputs received by motoneurons; motoneuron recruitment; and motoneuron disease.				
Programme module type:	Optional for Behavioural Biology, Cell Biology, Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3313			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and 2 practical classes.			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr G Miles			
Lecturer(s)/Tutor(s):	Dr W Li, Prof K Sillar, Dr G Miles, Dr W Heitler			

BL4248 Human Physiology of Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	Withdrawn for 2012/3 on 7-9-12			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Marine Biology, Zoology and all Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr C Peddie			
Lecturer(s)/Tutor(s):	Dr C Peddie, Dr G Prescott			

BL4249 Scientific Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	Full Time 2-3 weeks in March/April			
<p>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). Seminars during the field trip will cover diving safety, dive project planning, management, risk assessment and the theory behind underwater surveying techniques. 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.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL4251, PADI Advanced Open Water Diver or BSAC Sports Diver (or equivalent)			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and practicals.			
	Scheduled learning: 95 hours		Guided independent study: 55 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 45%, Coursework = 55%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Peddie			
Lecturer(s)/Tutor(s):	Dr C Peddie			

BL4251 Tropical Marine Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged			
<p>The goal of this module is to examine the ecological and biological principles underpinning the major tropical marine ecosystems. The module provides an understanding of the ecological processes that control tropical marine ecosystems, and considers the organisms that are characteristic of each. All the major tropical marine habitats will be considered, but with a focus on coral reef, seagrass and mangrove ecosystems. The module also tackles topical research areas on the subject through student-led seminars, which will vary depending on the latest scientific research and the specific interests of participants.</p> <p>On completion of the module, students will have an understanding of coral reef, mangrove and seagrass ecology. They will understand the biology and physiology of corals and be able to identify the major phyla associated with tropical marine ecosystems. The module will also provide an understanding of the threats to tropical marine habitats, current research trends on tropical marine systems, and the scientific approaches and techniques used to tackle scientific questions relating to tropical marine biology.</p>				
Programme module type:	Optional for Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Required for:	BL4249 - unless other pre-requisite(s) for that module held.			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Practical Examination = 50%			
Module Co-ordinator:	Dr C H Smith			
Lecturer(s)/Tutor(s):	Dr C H Smith, Dr R Spence			

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BL4254 Fisheries Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged			
This module will provide an introduction to the utilisation 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.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3309			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practicals.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 50%, Coursework = 20%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Paxton			
Lecturer(s)/Tutor(s):	Dr C Paxton			

BL4255 Marine and Environmental Biotechnology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged			
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.				
Programme module type:	Optional for Biochemistry, Marine Biology, Molecular Biology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 30%, Coursework = 30%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr V J Smith			
Lecturer(s)/Tutor(s):	Dr V J Smith			

BL4256 Marine Bioacoustics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged			
This module will provide seminar- and practical-based instruction on sound propagation in the ocean, use of sound by marine mammals for communication, orientation, and foraging (as monitored by humans using techniques to record sound). It will also examine sound-based conflicts between humans and marine organisms.				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: Seminars and practicals.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 25%, Coursework = 0%			
	As used by St Andrews: Coursework = 50% (class test = 25%, Practical Examination = 25%), Written Examination = 50%			
Module Co-ordinator:	Prof P Tyack			
Lecturer(s)/Tutor(s):	Prof P Tyack			

BL4258 Foraging in Marine Mammals				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged			
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.				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3319			
Learning and teaching methods and delivery:	Weekly contact: Seminars and occasional lectures and practicals.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr P Miller			
Lecturer(s)/Tutor(s):	Dr P Miller, Prof I Boyd, Dr J Matthiopoulos.			

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BL4259 Marine Mammals and Man				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3318			
Learning and teaching methods and delivery:	Weekly contact: Seminars and occasional lectures and practicals.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof P S Hammond			
Lecturer(s)/Tutor(s):	Prof P S Hammond, Dr S Northridge, Prof I Boyd, Dr A Hall, Dr Gordon			

BL4260 Biological Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	Withdrawn for 2012/3 on 7-9-12			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3318			
Learning and teaching methods and delivery:	Weekly contact: Seminars and occasional lectures and practicals.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Dr P Miller			
Lecturer(s)/Tutor(s):	Dr P Miller			

BL4262 Physical Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module aims to give a broad overview of the concepts and fundamental achievements of physical oceanography. Physical oceanography is the study of physical conditions and physical processes within the ocean, especially the motions and physical properties of ocean waters. A series of lectures will be provided to assure that students have the broad background required to tackle primary literature in this field. Students will present seminars on particular focus areas within each lecture topic, based upon reading primary literature.</p>				
Programme module type:	Optional for Marine Biology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: Seminars and lectures.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 40%, Coursework = 0%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr L Boehme			
Lecturer(s)/Tutor(s):	Dr L Boehme			

BL4263 The Question of Culture in Cetaceans				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>The existence and extent of social learning and cultural transmission in non-humans is a very active area of current research, as well as of controversy, with an active ongoing debate. The aim of this module is to provide an introduction to this area through considering the conceptual issues and direct and indirect evidence for cultural transmission in cetaceans, the whales and dolphins. We will consider what is meant by the term 'culture', how it can be studied in non-humans, and the evidence for and against such processes being present in cetacean societies.</p>				
Programme module type:	Optional for Behavioural Biology, Marine Biology Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3319			
Learning and teaching methods and delivery:	Weekly contact: Seminars and lectures.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 10%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Practical Examination = 10%, Written Examination = 40%			
Module Co-ordinator:	Dr L Rendell			
Lecturer(s)/Tutor(s):	Dr L Rendell			

Biology - Honours Level 2012/13 - September 2012

BL4266 Conservation Research Methods ; Estimating Population Size				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3309			
Learning and teaching methods and delivery:	Weekly contact: 5 x 1-week practicals involving a lecture, a field practical and an analysis workshop.			
	Scheduled learning: 40 hours		Guided independent study: 110 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof P S Hammond			
Lecturer(s)/Tutor(s):	Prof P S Hammond			

BL4268 Conservation and Management of Biodiversity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3309			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars per week and occasional lectures and practicals.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A Ojanguren			
Lecturer(s)/Tutor(s):	Dr A Ojanguren, Dr M Dornelas			

BL4270 Plant-environment Interactions				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Ecology and Conservation and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 34%, Coursework = 66%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof A Tobin			
Lecturer(s)/Tutor(s):	Prof A Tobin, Prof J Raven, Prof S Hubbard			

BL4273 Bioinformatics for Biologists				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Biochemistry, Cell Biology, Evolutionary Biology, Marine Biology, Molecular Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	Normally BL3320			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practicals and a seminar.			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr D Barker			
Lecturer(s)/Tutor(s):	Dr D Ferrier, Prof Ritchie, Dr D Barker			

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BL4274 Evolutionary Developmental Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>Evolution of new morphologies involves changes to the development of organisms. The field of evolutionary developmental biology is thus 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. Since animal life evolved in the sea, much of what we can learn about the major events in animal evolution can be obtained from studying marine invertebrates. Consequently the examples covered in this module will tend to be drawn from these organisms.</p>				
Programme module type:	Optional for Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D Ferrier			
Lecturer(s)/Tutor(s):	Dr D Ferrier			

BL4275 Evolution in Action				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof T R Meagher			
Lecturer(s)/Tutor(s):	Prof T R Meagher			

BL4278 Biology of Dinosaurs and Other Extinct Vertebrates				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
It seems natural to use our understanding of extant biology to make inferences about the past. This allows us to test ideas about evolution and biodiversity in a wider context. Additionally, "rewilding" is an active but controversial strand of conservation biology that suggests that where "keystone" species have gone extinct, we should introduce an analogous species. Vertebrates fossilise well, and so offer a good foundation of source material. They are generally large and complex organisms, and we particularly focus on the large representatives of each taxonomic group; this allows us to explore the physical constraints on the functioning of organisms.				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 35%, Coursework = 15%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof G Ruxton			
Lecturer(s)/Tutor(s):	Prof G Ruxton			

BL4280 Evolution and Human Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Behavioural Biology, Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Prof K N Laland			
Lecturer(s)/Tutor(s):	Prof K N Laland, Dr K Cross			

Biology - Honours Level 2012/13 - September 2012

BL4281 Animal Communication and Cognition				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examination = 50%, Practical Examination = 30%, Coursework = 20%			
	As used by St Andrews: Coursework = 50% (talk = 30% + handout = 20%), Written Examination = 50%			
Module Co-ordinator:	Dr V Janik			
Lecturer(s)/Tutor(s):	Dr V Janik			

BL4282 Biology and Behaviour of Social Insects				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Behavioural Biology, Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 40%, Coursework = 10%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof P Willmer			
Lecturer(s)/Tutor(s):	Dr D M Shuker, Prof P Willmer			

BL4284 Breeding Systems and Sexual Conflict				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Behavioural Biology, Evolutionary Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Practical Examination = 50%			
Module Co-ordinator:	Dr C Smith			
Lecturer(s)/Tutor(s):	Dr C Smith, Dr J Graves, Prof T R Meagher, Prof M Ritchie			

BL4285 Complex Systems in Animal Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Behavioural Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and practicals.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr V A Smith			
Lecturer(s)/Tutor(s):	Dr V A Smith			

Biology - Honours Level 2012/13 - September 2012

BL4286 Advanced Topics in Ecology and Evolution				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>In this module, we will consider a number of outstanding questions, from both molecular and whole organism approaches, currently facing ecologists and evolutionary biologists today. These questions include why we get old and why we have sex, through to why the world is (mostly) green and how will life on earth come to an end. These questions will be relevant to both our understanding of the evolution and maintenance of the biosphere as we see it today, and also in terms of understanding humanity's place in that biosphere. We will take Sherratt and Wilkinson's (2009) recent book Big Questions in Ecology and Evolution as our starting point, with student-led seminars bringing us classic and contemporary primary literature to address the topics in more detail. The result will be an exciting opportunity to get to grips with a number of big problems in ecology and evolution, from the perspective of the very latest research in those areas.</p>				
Programme module type:	Optional for Behavioural Biology, Evolutionary Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 50%, Coursework = 0%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr D Shuker			
Lecturer(s)/Tutor(s):	Dr D Shuker, Prof M Ritchie			

BL4291 Science, Museums and the Public				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 & 2 (taught twice)
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all Biology Single Honours degrees or Environmental Biology Joint or Major/Minor Degree programmes			
Anti-requisite(s):	BL4292, ID4001			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and practicals.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr M J Milner			
Lecturer(s)/Tutor(s):	Dr M J Milner			

BL4292 History of Genetics and Evolution			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
<p>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 module 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.</p>			
Programme module type:	Optional for all Biology Single Honours degrees or Environmental Biology Joint or Major/Minor Degree programmes		
Anti-requisite(s):	BL4291, ID4001		
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and occasional lectures.		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%		
	As used by St Andrews: Coursework = 40%, Written Examination = 60%		
Module Co-ordinator:	Dr M J Milner		
Lecturer(s)/Tutor(s):	Dr M J Milner, Prof Ritchie, Prof Meagher, Prof G Taylor, Dr Barker, Dr J Sleeman, Dr D Ferrier		

Biology - Honours Level 2012/13 - September 2012

BL4301 Polar Ecology: A field course in Antarctica			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Availability restrictions:	To be confirmed		
Planned timetable:	To be arranged.		
<p>This module will provide a theoretical and practical introduction to the ecology and key ecosystem components of Antarctica with emphasis on marine ecology, ecosystem functionality and conservation issues. Students will participate in a two-week vessel-based expedition to Antarctica during the austral summer (northern winter). This field trip involves traveling to southern Argentina, conducting at-sea surveys during transit to/from the Antarctic Peninsula, participating in shore-based activities (e.g. observations at penguin colonies, visit to active research station), and exploring Antarctic coastal waters from small boats and the ice-strengthened vessel. Through a series of lectures, student-lead seminars, workshops, on-board practicals and field excursions, students will gain appreciation of and insights into the diversity, complexity, scientific and management challenges of the Antarctic ecoregion.</p>			
Programme module type:	Optional for Ecology and Conservation, Marine Biology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes		
Pre-requisite(s):	BL2105, BL3308, BL3318 or equivalent preferred but not essential; Medical certificate documenting fit for travel to remote Antarctica		
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and practicals over a 2-week period.		
	Scheduled learning: 100 hours	Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr S Heinrich		
Lecturer(s)/Tutor(s):	Dr S Heinrich		

School of Chemistry

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

M.Chem. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, the final three years of which form 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

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, the final three years of which form 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.

Professional Accreditation: Unless otherwise stated all degree programmes in Chemistry are accredited by the Royal Society of Chemistry (RSC) for professional membership.

Biomolecular Science - Single Honours B.Sc.

First Year:	80 credits: BL1101 and BL1102 and CH1401 and CH1601.
Second Year:	120 credits: BL2101 and BL2104 and CH2501 and CH2601 - with passes at grade 11 or better in all.
Third Year:	120 credits: BL3301 and BL3310 and BL3312 and CH3431 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716.
Fourth Year:	55 credits: BL4210 and CH4442; 45 credits in three of: BL4212, BL4213, BL4215, BL4216, BL4222, BL4223; 20 credits in two of: CH4612, CH4613, CH4614, CH5611, CH5612, CH5613, CH5614, CH5616. <i>Alternatively, by special arrangement only:</i> 75 credits: BL4201 and BL4210; 50 credits in five of: CH4614, CH4612, CH4613, CH5611, CH5612, CH5613, CH5614, CH5616.

Chemistry - Honours Level 2012/13 - August 2012

Biomolecular Science - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits.

10 credits: CH1202;

120 credits: BL2101 **and** BL2104 **and** CH2501 **and** CH2601 - with passes at grade 11 or better in all.

120 credits: BL3301 **and** BL3310 **and** BL3312 **and** CH3431 **and** CH3612 **and** CH3613 **and** CH3615 **and** CH3621 **and** CH3716.

55 credits: BL4210 **and** CH4442;

45 credits in three of: BL4212, BL4213, BL4215, BL4216, BL4222, BL4223;

20 credits in two of: CH4612, CH4613, CH4614, CH5611, CH5612, CH5613, CH5614, CH5616.

Alternatively, by special arrangement only:

*75 credits: BL4201 **and** BL4210;*

50 credits in five of: CH4614, CH4612, CH4613, CH5611, CH5612, CH5613, CH5614, CH5616.

Chemical Sciences - Single Honours B.Sc.

First Year: 60 credits: CH1401 **and** CH1402 **and** CH1601.

Second Year: 90 credits: CH2501 **and** CH2601 **and** CH2701 - with passes at grade 11 or better in all.

Third Year: 120 credits: CH3431 **and** CH3441 **and** CH3514 **and** CH3512 **and** CH3521 **and** CH3612 **and** CH3615 **and** CH3621 **and** CH3712 **and** CH3717 **and** CH3721.

Fourth Year: 40 credits: CH4442;

40 credits in four of: CH4514, CH4612, CH4614, CH4714, CH5717;

40 credits in four of: CH4515, CH4613, CH4712, CH4713, CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712 - CH5714, CH5718.

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 30 credits from the 3000 - level and 4000 - level modules listed above can be replaced with modules from other Schools.

Chemical Sciences - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year: 10 credits: CH1202;

90 credits: CH2501 **and** CH2601 **and** CH2701 - with passes at grade 11 or better in all.

Third Year: 120 credits: CH3431 **and** CH3441 **and** CH3514 **and** CH3512 **and** CH3521 **and** CH3612 **and** CH3615 **and** CH3621 **and** CH3712 **and** CH3717 **and** CH3721.

Fourth Year: 40 credits: CH4442;

40 credits in four of: CH4514, CH4612, CH4614, CH4714, CH5717;

40 credits in four of: CH4515, CH4613, CH4712, CH4713, CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712 - CH5714, CH5718.

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 30 credits from the 3000 - level and 4000 - level modules listed above can be replaced with modules from other Schools.

Chemistry - Single Honours B.Sc.

First Year: 60 credits: CH1401 **or** CH1402 **or** CH1601.
 Second Year: 90 credits: CH2501 **and** CH2601 **and** CH2701 - with passes at grade 11 or better in all.
 Third Year: 120 credits: CH3431 **and** CH3441 **and** CH3514 **and** CH3512 **and** CH3521 **and** CH3612 **and** CH3615 **and** CH3621 **and** CH3712 **and** CH3717 **and** CH3721.
 Fourth Year: 50 credits: CH4442 **and** CH4461;
 30 credits: CH4514 **and** CH4614 **and** CH4714;
 20 credits in two of: CH4515, CH4613, CH4712, CH4713;
 20 credits in two of: CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712-CH5714, CH5718.

Chemistry - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits.

Second Year: 10 credits: CH1202;
 90 credits: CH2501 **and** CH2601 **and** CH2701 - with passes at grade 11 or better in all.
 Third Year: 120 credits: CH3431 **and** CH3441 **and** CH3514 **and** CH3512 **and** CH3521 **and** CH3612 **and** CH3615 **and** CH3621 **and** CH3712 **and** CH3717 **and** CH3721.
 Fourth Year: 50 credits: CH4442 **and** CH4461;
 30 credits: CH4514 **and** CH4614 **and** CH4714;
 20 credits in two of: CH4515, CH4613, CH4712, CH4713;
 20 credits in two of: CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712-CH5714, CH5718.

Chemistry - Joint Honours B.Sc.

Chemistry and Geology - Joint Honours B.Sc.

First Year: 100 credits: CH1401 **and** CH1402 **and** CH1601 **and** ES1001 **and** ES1002.
 Second Year: 90 credits: CH2501 **and** ES2001 **and** ES2002 - with passes at grade 11 or better in all.
 30 credits: CH2601 **or** CH2701.
 Third Year: 120 credits: CH3431 **and** CH3514 **and** CH3521 **and** CH3712 **and** CH3717 **and** CH3721 **and** ES3001 **and** ES3004 **and** ES3006 **and** ES3009.
 Fourth Year: 30 credits in three of: CH4514, CH4614, CH4714, CH4712, CH5711, CH5717;
 50 credits: (ES4010 **with** CH4448) **or** ID4441;
 10 credits: CH5518;
 30 credits in two of: ES3008, ES4006, ES4007, ES4009, ID4001.
 In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

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Chemistry and Mathematics - Joint Honours B.Sc.

Chemistry element of Chemistry and Mathematics Joint Honours B.Sc.:

First Year: 60 credits: CH1401 and CH1402 and CH1601.
Second Year: 60 credits: CH2501 and CH2701 - with passes at grade 11 or better in both.
Third Year: 30 credits in three of: CH3431, CH3512, CH3615, CH3621, CH3717, CH3721;
30 credits: CH3441, CH3514, CH3521, CH3712, CH3715.
Fourth Year: 40 credits: CH4442;
10 credits: CH4514 or CH4614 or CH4612 or CH4714;
10 credits: CH4515 or CH4613 or CH4712 or CH4713.
In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

Chemistry with French - Honours B.Sc.

First Year: 100 credits: CH1401 and CH1402 and CH1601 and FR1001 and FR1002.
Second Year: 20 credits: FR2021;
100 credits: CH2501 and CH2603 and CH2701 and FR2022 - with passes at grade 11 or better in all.
Third Year: 50 credits: CH3441 and FR3001 and FR3002;
70 credits in seven of: CH3431, CH3514, CH3512, CH3521, CH3612, CH3615, CH3621, CH3712, CH3717, CH3721.
Year Abroad: WIYA version only: 60 credits comprising FR3101.
Fourth Year: 70 credits: CH4442 and FR4105 and FR4106;
50 credits in five of: CH4461, CH4514, CH4515, CH4613, CH4614, CH4714, CH4712, CH4713.

Chemistry with Medicinal Chemistry - Single Honours B.Sc.:

First Year: 60 credits: CH1401 and CH1402 and CH1601.
Second Year: 90 credits: CH2501 and CH2601 and CH2701.
Third Year: 120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716 and CH3721.
Fourth Year: 100 credits: CH4442 and CH4461 and CH4514 and CH4614 and CH4612 and CH4613 and CH5611;
20 credits in two of: CH5612 - CH5614, CH5616.

Chemistry with Medicinal Chemistry - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits..

Second Year: 10 credits: CH1202;
90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 11 or better in all.
Third Year: 120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716 and CH3721.
Fourth Year: 100 credits: CH4442 and CH4461 and CH4514 and CH4614 and CH4612 and CH4613 and CH5611;
20 credits in two of: CH5612 - CH5614, CH5616.

Chemistry with Pharmacology - Single Honours B.Sc.

First Year:	80 credits: BL1101 and BL1102 and CH1401 and CH1601.
Second Year:	120 credits: BL2101 and BL2104 and CH2501 and CH2601 – with passes at grade 11 or better in all.
Third Year:	40 credits: BL3312 and BL3313; 60 credits: CH3431 and CH3512 and CH3615 and CH3621 and CH3716 and CH3721; 20 credits in two of: CH3441, CH3514, CH3612, CH3613.
Fourth Year:	50 credits: CH4447 and CH4461; 70 credits in seven of: CH4514, CH4515, CH4612 - CH4614, CH4712 - CH4714, CH5611 - CH5614, CH5616.
The project CH4447 will be supervised jointly by staff from Chemistry and Biology.	

Materials Chemistry - Single Honours B.Sc.

First Year:	120 credits: CH1401 and CH1402 and CH1601 and PH1011 and PH1012 and MT1002.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 – with passes of grade 11 or better in all. 30 credits: PH2011 or MT2001 – with a pass at grade 11 or better.
Third Year:	100 credits: CH3441 and CH3513 and CH3712 and CH3715 and CH3717 and CH3722 and PH3074 and PH4039; 20 further credits: CH3000 - CH3999.
Fourth Year:	90 credits: CH4442 and CH4452 and CH4714 and CH4712; 30 further credits: CH4000 - CH5999.

Chemistry - Single Honours M.Chem.

First Year:	60 credits: CH1401 and CH1402 and CH1601.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3615 and CH3621 and CH3712 and CH3717 and CH3721.
Fourth Year:	120 credits: CH4442 and CH4514 and CH4515 and CH4612 and CH4613 and CH4614 and CH4712 and CH4713 and CH4714.
Fifth Year:	80 credits: CH5441 and CH5461 and CH5511 and CH5611 and CH5711. 40 credits in four of: CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712 - CH5714, CH5717 - CH5718.

Chemistry - Single Honours M.Chem.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	10 credits comprising CH1202; 90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3615 and CH3621 and CH3712 and CH3717 and CH3721.
Fourth Year:	120 credits: CH4442 and CH4514 and CH4515 and CH4612 and CH4613 and CH4614 and CH4712 and CH4713 and CH4714.
Fifth Year:	80 credits: CH5441 and CH5461 and CH5511 and CH5611 and CH5711 40 credits in four of: CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712 - CH5714, CH5717 - CH5718.

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Chemistry with External Placement - Single Honours M.Chem.

First Year:	60 credits: CH1401 and CH1402 and CH1601.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 - with passes at 15 or better in all
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3615 and CH3621 and CH3712 and CH3717 and CH3721.
Fourth Year:	120 credits: CH4441 and CH4451.
Fifth Year:	80 credits: CH5441 and CH5461 and CH5511 and CH5611 and CH5711; 40 credits in four of: CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712 - CH5714, CH5717 - CH5718.

Chemistry with External Placement - Single Honours M.Chem.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	10 credits: CH1202; 90 credits: CH2501 and CH2601 and CH2701 – with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3615 and CH3621 and CH3712 and CH3717 and CH3721.
Fourth Year:	120 credits: CH4441 and CH4451.
Fifth Year:	80 credits: CH5441 and CH5461 and CH5511 and CH5611 and CH5711 40 credits in four of: CH5516 - CH5518, CH5612 - CH5614, CH5616, CH5712 - CH5714, CH5717 - CH5718.

Chemistry with French - Honours M.Chem.

First Year:	100 credits: CH1401 and CH1402 and CH1601 and FR1001 and FR1002.
Second Year:	20 credits: FR2021; 20 credits: FR2022 - with a pass at grade 11 or better. 80 credits: CH2501 and CH2603 and CH2701 - with passes at grade 15 or better in all.
Third Year:	50 credits: CH3441 and FR3001 and FR3002; 70 credits in seven of: CH3431, CH3514, CH3512, CH3521, CH3612, CH3615, CH3621, CH3712, CH3717, CH3721.
Fourth Year:	100 credits: CH4442 and CH4514 and CH4614 and CH4714 and FR5810; 20 credits in two of: CH4515, CH4613, CH4712, CH4713.
Fifth Year:	80 credits: CH5441 and CH5461 and FR4105 and FR4106; 40 credits in four of: CH5511, CH5516 - CH5518, CH5611 - CH5614, CH5616, CH5711 - CH5714, CH5717 - CH5718.

Chemistry with French and External Placement - Honours M.Chem.

First Year:	100 credits: CH1401 and CH1402 and CH1601 and FR1001 and FR1002.
Second Year:	20 credits: FR2021; 20 credits: FR2022 - with a pass at grade 11 or better. 80 credits: CH2501 and CH2603 and CH2701 - with passes at grade 15 or better in all.
Third Year:	50 credits: CH3441 and FR3001 and FR3002; 70 credits in seven of: CH3431, CH3514, CH3512, CH3521, CH3612, CH3615, CH3621, CH3712, CH3717, CH3721.
Fourth Year:	120 credits: CH4441 and FR5810.
Fifth Year:	80 credits: CH5441 and CH5461 and FR4105 and FR4106; 40 credits in four of: CH5511, CH5516 - CH5518, CH5611 - CH5614, CH5616, CH5711 - CH5714, CH5717 - CH5718.

Chemistry with Mathematics - Single Honours M.Chem.

First Year:	80 credits: CH1401 and CH1402 and CH1601 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	90 credits: CH2501 and CH2701 and MT2001 - with passes at grade 15 or better in all; 30 credits: MT2002 (for Pure Maths options) or MT2003 (for Applied Maths options).
Third Year (Chemistry):	20 credits: CH3441; 60 credits in six of: CH3431, CH3514, CH3512, CH3521, CH3615, CH3621, CH3712, CH3715, CH3717, CH3721;
Fourth Year (Chemistry):	40 credits: CH4442; 30 credits in three of: CH4514, CH4515, CH4614, CH4612, CH4613, CH4714, CH4712, CH4713;
Third and Fourth Years (Maths):	30 credits in two of: MT3501, MT3503, MT3504; 15 credits: MT3600 or MT3601; 45 further credits: MT3000 - MT4598, MT4600 - MT4999.
Fifth Year:	90 credits: CH5441 and CH5461 and CH5711 and CH5712 and CH5713 and CH5714; 30 credits in three of: CH5511, CH5516 - CH5518, CH5611 - CH5616, CH5717 - CH5718.

Chemistry with Medicinal Chemistry - Single Honours M.Chem.

First Year:	60 credits: CH1401 and CH1402 and CH1601.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716 and CH3721.
Fourth Year:	120 credits: CH4442 and CH4514 and CH4515 and CH4612 and CH4613 and CH4614 and CH4714 and CH5612 and CH5614.
Fifth Year:	120 credits: CH5441 and CH5461 and CH5511 and CH5516 and CH5517 and CH5518 and CH5611 and CH5613 and CH5616.

Chemistry with Medicinal Chemistry - Single Honours M.Chem.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	10 credits: CH1202; 90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716 and CH3721.
Fourth Year:	120 credits: CH4442 and CH4514 and CH4515 and CH4612 and CH4613 and CH4614 and CH4714 and CH5612 and CH5614.
Fifth Year:	120 credits: CH5441 and CH5461 and CH5511 and CH5516 and CH5517 and CH5518 and CH5611 and CH5613 and CH5616.

Chemistry - Honours Level 2012/13 - August 2012

Chemistry with Medicinal Chemistry and External Placement - Single Honours M.Chem.

First Year:	60 credits: CH1401 and CH1402 and CH1601.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716 and CH3721.
Fourth Year:	120 credits: CH4441 and CH4451.
Fifth Year:	120 credits: CH5441 and CH5461 and CH5511 and CH5611 and CH5612 and CH5613 and CH5614 and CH5615 and CH5616.

Chemistry with Medicinal Chemistry and External Placement - Single Honours M.Chem.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	10 credits: CH1202; 90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all.
Third Year:	120 credits: CH3431 and CH3441 and CH3514 and CH3512 and CH3521 and CH3612 and CH3613 and CH3615 and CH3621 and CH3716 and CH3721.
Fourth Year:	120 credits: CH4441 and CH4451.
Fifth Year:	120 credits: CH5441 and CH5461 and CH5511 and CH5611 and CH5612 and CH5613 and CH5614 and CH5615 and CH5616.

Chemistry and Physics - Joint Honours M.Sci.

First Year:	100 credits: CH1401 and CH1402 and MT1002 and PH1011 and PH1012. <i>(Permission may be granted for suitably-qualified students to be exempted from PH1011 and/or PH1012 and to take some 2000-level PH credits in First Year.)</i>
Second Year:	150 credits: CH2501 and CH2701 and MT2001 and PH2011 and PH2012 - with passes at grade 15 or better in all.
Third or Fourth Year*:	120 credits: CH3431 and CH3441 and CH3512 and CH3514 and CH3615 and CH3712 and CH3717 and CH3721 and CH4712 and CH4713 and CH4714.
Third or Fourth Year*:	120 credits: PH3007 and PH3012 and PH3061 and PH3062 and PH3082 and PH3101 and PH4022 and PH4037 and PH4039.
Fifth Year:	EITHER 60 credits: PH5101; 15 further credits in one of: PH5000 - PH5999; 30 credits in three of: CH5518, CH5711 - CH5714, CH5717 - CH5718; 15 further credits: CH5000 - CH5999, PH5000 - PH5999. OR 40 credits from CH5441; 30 credits: PH5000 - PH5999; 30 credits: CH5518, CH5711 - CH5714, CH5717 - CH5718; 20 further credits: CH5000 - CH5999, PH5000 - PH5999.

* This will be decided between the two Schools and notified to students.

Materials Chemistry - Single Honours M.Chem.

First Year:	120 credits: CH1401 and CH1402 and CH1601 and PH1011 and PH1012 and MT1002.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all; 30 credits: PH2011 or MT2001 - with a pass at grade 15 or better.
Third Year:	120 credits: CH3441 and CH3513 and CH3712 and CH3715 and CH3717 and CH3722 and CH4714 and CH4712 and PH3074 and PH4039.
Fourth Year:	100 credits: CH3514 and CH4442 and CH4452 and CH4515 and CH4713; 20 credits in two of: CH3512, CH3612, CH3613, CH3615, CH4514.
Fifth Year:	110 credits: CH5441 and CH5518 and CH5711 and CH5712 and CH5713 and CH5716 and CH5717 and CH5718; 10 credits: PH5208 or PH5022.

Materials Chemistry with External Placement - Single Honours M.Chem.

First Year:	120 credits: CH1401 and CH1402 and CH1601 and PH1011 and PH1012 and MT1002.
Second Year:	90 credits: CH2501 and CH2601 and CH2701 - with passes at grade 15 or better in all. 30 credits: PH2011 or MT2001 - with a pass at grade 15 or better.
Third Year:	120 credits: CH3441 and CH3513 and CH3712 and CH3715 and CH3717 and CH3722 and CH4714 and CH4712 and PH3074 and PH4039.
Fourth Year:	120 credits: CH4441 and CH4452.
Fifth Year:	110 credits: CH5441 and CH5518 and CH5711 and CH5712 and CH5713 and CH5716 and CH5717 and CH5718; 10 credits: PH5208 or PH5022.

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

Chemistry - Honours Level 2012/13 - August 2012

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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 & Teaching in Science (Section 23)

Chemistry (CH) Modules

CH3431 Chemistry Workshop			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged.		
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.			
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry and Geology, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics		
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 or 2 lectures, and occasional tutorials		
	Scheduled learning: 50 hours	Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%		
	As used by St Andrews: Practical Examination = 100%		
Module Co-ordinator:	Dr R A Aitken		
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr T Lebl, Prof M Buehl, Dr J A Crayston, Professor P Lightfoot, Dr W Zhou, Professor P A Wright, Professor D Philp, Dr C H Botting		

CH3441 Mini Chemistry Project				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am Mon - Fri for 4 - 5 weeks.			
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.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with French, Materials Chemistry, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics, Materials Chemistry with External Placement. Optional for Chemistry and Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 7 hours per day 4 days a week, 4 hours on Wednesdays.			
	Scheduled learning: 80 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Practical Examination = 60%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr I A Smellie, Prof D O'Hagan, Professor P A Wright, Dr T van Mourik, Dr F D Morrison, Professor D J Cole-Hamilton, Professor P C J Kamer, Dr B E Bode, Professor J D Woollins			

CH3512 Organometallic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry M.Chem.			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof S P Nolan, Prof P C J Kamer			

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CH3513 Advanced Solid State Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Materials Chemistry, Materials Chemistry with External Placement			
Pre-requisite(s):	CH2501	Required for:	CH5716	
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 16 hours		Guided independent study: 84 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr P A Connor			

CH3514 Physical Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module examines the concepts and parameters involved in a greener approach to chemistry. It will also discuss the remedies proposed for a sustainable chemistry. Students will learn the principles of green chemistry, how to evaluate the environmental impact of a process and cover the following topics: waste minimisation and treatment, catalysis, greener solvents, renewable resources, alternative energy sources, design of greener processes, industrial case studies. A major component of the module will cover the use of spectroscopic techniques, including multinuclear NMR and EPR, to characterise main group and other inorganic compounds.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry and Geology, Chemistry with Medicinal Chemistry, Materials Chemistry M.Chem., Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D J Cole-Hamilton, Dr B E Bode			

CH3521 Inorganic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 12.00 noon Mon to Fri.			
This module comprises practical experiments involving synthesis, characterisation and measurements in inorganic chemistry.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry and Geology, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 3 hours daily for weeks 1 - 6.			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr P Kilian, Prof D J Cole-Hamilton, Professor J D Woollins, Dr J A Crayston			

CH3612 Synthetic Methodology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement Optional for Chemistry with French, Chemistry with French and External Placement, Materials Chemistry M.Chem.			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr N J Westwood			

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CH3613 Carbohydrate and Nucleic Acid Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Biomolecular Science, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement. Optional for Materials Chemistry M.Chem.			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr G J Florence, Prof D O'Hagan			

CH3615 Mechanism in Organic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>The objective of this module is to provide the student with a thorough understanding of the mechanistic aspects of organic chemistry. A problem-solving approach is employed in order to develop the ability to elucidate information, both qualitative and quantitative, concerning reaction mechanisms from experimental data. The module will also 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 and aspects of alicyclic chemistry.</p>				
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry M.Chem.			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D Philp, Dr A D Smith			

CH3621 Organic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 12.00 noon Mon to Fri.			
Practical experiments involving synthesis, characterisation and measurements in organic chemistry.				
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: Daily 3-hour practical classes over six weeks.			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr M L Clarke, Prof D O'Hagan, Dr I A Smellie			

CH3712 Quantum Theory of Atoms, Molecules and Solids				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module builds on 'Quantum Theory of Atoms, Molecules and Solids. Part I' given in CH2102. 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.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Materials Chemistry, Chemistry and Geology, Chemistry with External Placement, Chemistry and Physics, Materials Chemistry with External Placement. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics			
Pre-requisite(s):	CH2701	Required for:	CH5714, PH5022	
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P G Bruce, Dr G Haehner			

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CH3715 Introduction to Analysis of Materials				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Materials Chemistry, Materials Chemistry with External Placement. Optional for Chemistry and Mathematics, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R T Baker			

CH3716 Quantitative Aspects of Medicinal Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Biomolecular Science, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement			
Anti-requisite(s):	CH3717			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr T Van Mourik, Dr F M Gray, Dr N J Westwood			

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CH3717 Statistical Mechanics and Computational Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry and Geology, Materials Chemistry, Chemistry with External Placement, Chemistry and Physics, Materials Chemistry with External Placement. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics			
Anti-requisite(s):	CH3716	Required for:	CH5714	
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr C J Baddeley, Dr T van Mourik			

CH3721 Physical Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm Mon to Fri			
This module comprises practical experiments involving physical measurements and the use of computational programmes in Chemistry.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry and Geology, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics			
Anti-requisite(s):	CH3722			
Learning and teaching methods and delivery:	Weekly contact: 3 - 4 hours per day for 5 weeks.			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P A Wright, Prof M Buck, Dr R Schaub, Dr T van Mourik			

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CH3722 Materials Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm Mon to Fri			
This module comprises practical experiments involving physical measurements and the use of computational programmes in Materials Science.				
Programme module type:	Compulsory for Materials Chemistry, Materials Chemistry with External Placement			
Learning and teaching methods and delivery:	Weekly contact: 3 - 4 hours per day for 5 weeks.			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P A Wrightt, Prof M Buck, Dr R Schaub, Dr T van Mourik			

CH4441 External Placement				
SCOTCAT Credits:	90	SCQF Level 10	Semester:	Whole Year
Planned timetable:	Please Contact School			
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.				
Programme module type:	Compulsory for Chemistry with External Placement, Chemistry with French with External Placement, Chemistry with Medicinal Chemistry and External Placement, Materials Chemistry with External Placement			
Co-requisite(s):	CH4451 or CH4452 or FR5810			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Day-to-day supervision by company supervisor, liaising with member of School academic staff.			
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			

CH4442 Chemistry Research Project				
SCOTCAT Credits:	40	SCQF Level 10	Semester:	Whole Year
Planned timetable:	2 days per week, to be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry and Mathematics, Chemistry with Medicinal Chemistry, Chemistry with French, Materials Chemistry, Chemistry with Mathematics			
Anti-requisite(s):	CH4443 - CH4448, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 360 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

CH4443 Chemistry Research Project for Non-graduating students				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Either
Planned timetable:	2 days per week, to be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH5441, CH4442, CH4444 - CH4448, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 405 hours		Guided independent study: 45 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

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CH4444 Chemistry Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1 & 2 (taught twice)
Planned timetable:	To be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH5441, CH4442 - CH4443, CH4445 - CH4448, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 540 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

CH4445 Chemistry Research Project for Non-graduating Students				
SCOTCAT Credits:	90	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only for Non-graduating Students			
Planned timetable:	To be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH5441, CH4442 - CH4444, CH4446 - CH4448, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 810 hours		Guided independent study: 90 hours	
Assessment pattern:	As defined by QAA Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

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CH4446 Chemistry Research Project for Non-graduating Students				
SCOTCAT Credits:	120	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only for Non-graduating Students			
Planned timetable:	To be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH5441, CH4442 - CH4445, CH4447, CH4448, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 1080 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

CH4447 Level 4000 Project for Chemistry / Pharmacology				
SCOTCAT Credits:	40	SCQF Level 10	Semester:	Whole Year
Planned timetable:	2 days per week, to be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Chemistry with Pharmacology			
Anti-requisite(s):	CH4442 - CH4446, CH4448, CH5441, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 360 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

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CH4448 Chemistry project for Chemistry and Geology				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project.			
	Scheduled learning: 180 hours		Guided independent study: 20 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			

CH4451 Chemistry Distance Learning				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Planned timetable:	Distance Learning			
This module offers the material covered by Level 4000 B.Sc./M.Chem. modules CH4514, CH4614 and CH4714 in a distance-learning mode to students on the M.Chem. one-year placement. See the module descriptions for modules CH4514, CH4614 and CH4714 for details of module content.				
Programme module type:	Compulsory for Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement			
Anti-requisite(s):	CH4514, CH4614, CH4714	Co-requisite(s):	CH4441	
Learning and teaching methods and delivery:	Weekly contact: Distance Learning			
	Scheduled learning: 0 hours		Guided independent study: 300 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr F M Gray, Dr R A Aitken, Dr E R Kay, Prof S P Nolan, Dr B E Bode			

CH4452 Materials Chemistry Distance Learning				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Planned timetable:	Distance Learning			
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.				
Programme module type:	Compulsory for Materials Chemistry, Materials Chemistry with External Placement			
Learning and teaching methods and delivery:	Weekly contact: Distance Learning			
	Scheduled learning: 0 hours		Guided independent study: 300 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr F M Gray, Dr F D Morrison, Dr R T Baker			

CH4461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry B.Sc., Chemistry with Medicinal Chemistry B.Sc. Optional for Chemistry with French B.Sc.			
Anti-requisite(s):	CH5461			
Learning and teaching methods and delivery:	Weekly contact: 2 classes per week for 9 weeks.			
	Scheduled learning: 21 hours		Guided independent study: 79 hours	
Assessment pattern:	As defined by QAA Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	all staff			

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CH4514 Advanced Metal Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module covers 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. The module also aims 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.</p>				
Programme module type:	Compulsory for Chemistry, Chemistry with Medicinal Chemistry, Chemistry with French M.Chem. Optional for Chemical Sciences, Chemistry and Geology, Chemistry and Mathematics, Chemistry with French B.Sc., Chemistry with Mathematics, Materials Chemistry M.Chem.			
Anti-requisite(s):	CH4451, CH4511			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof S P Nolan, Dr B E Bode			

CH4515 Advanced Main Group Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module discusses the importance of and structural similarities between rings, cages and clusters particularly in main group chemistry. The general rules for predicting geometry in cage/cluster systems will be introduced and used to provide a framework for the range of systems to be discussed e.g. boranes, Zintl anions, phosphides. Further advanced topics in s and p block chemistry will be introduced, for example the stabilisation of heavier main group multiple bonds, low coordinate main group element centres, biradicaloids and use of weakly coordinating anions.</p>				
Programme module type:	Compulsory for Chemistry M.Chem., Materials Chemistry M.Chem., Chemistry with Medicinal Chemistry. Optional for Chemical Sciences, Chemistry B.Sc., Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Anti-requisite(s):	CH4513			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof J D Woollins, Dr P Kilian			

CH4612 Blockbuster Pharmaceuticals				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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-flourouracil, Zantac, viagra, β -blockers, prozac etc.				
Programme module type:	Compulsory for Chemistry M.Chem., Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Anti-requisite(s):	CH5615			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2-3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D O'Hagan and visiting industrial lecturers			

CH4613 Natural Products and Society				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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 e.g. 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.				
Programme module type:	Compulsory for Chemistry M.Chem., Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2-3 tutorials in total.			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr T K Smith, Dr G J Florence			

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CH4614 Heterocyclic and Pericyclic Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module covers the important areas of heterocyclic and pericyclic chemistry in detail. In heterocyclic chemistry, the nomenclature and numbering of single and fused ring systems, and structure, reactivity, synthesis and applications of the main five and six-membered ring systems with one and two heteroatoms will be covered. Selected industrial syntheses of heterocyclic medicinal compounds are used to illustrate the basic principles as well as the factors to be considered in large scale synthesis. In pericyclic chemistry, a frontier molecular orbital approach based on the Woodward Hoffmann rules will be applied to pericyclic reactions and used to provide an understanding of the energetics and stereochemistry of Diels Alder and 1,3-dipolar cycloaddition reactions as well as electrocyclic processes and sigmatropic rearrangements. Synthetic applications of these processes will also be illustrated.</p>				
Programme module type:	Compulsory for Chemistry, Chemistry with French M.Chem., Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemistry and Geology, Chemistry and Mathematics, Chemistry with French B.Sc., Chemistry with Mathematics, Chemical Sciences			
Anti-requisite(s):	CH4611, CH3611, CH3614, CH4451			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2-3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr E R Kay			

CH4712 Energy Conversion and Storage				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Chemistry M.Chem., Materials Chemistry, Chemistry and Physics, Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry B.Sc., Chemistry and Geology, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P G Bruce, Dr R T Baker			

CH4713 Interactions of Light with Matter				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry M.Chem., Materials Chemistry M.Chem. , Chemistry and Physics. Optional for Chemical Sciences, Chemistry B.Sc., Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof M Buehl, Dr R Schaub			

CH4714 Conductivity, Electrochemical Processes and the Structure of Polymers				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module covers electrolyte solutions and ionic conductivity, equilibrium electrochemistry and electrode processes, and, the synthesis, classification and structure of polymers.				
Programme module type:	Compulsory for Chemistry, Materials Chemistry, Chemistry with Medicinal Chemistry, Chemistry and Physics, Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry and Geology, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Anti-requisite(s):	CH4451, CH4711			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2-3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr F M Gray			

Chemistry - Honours Level 2012/13 - August 2012

CH5441 Research Project				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Planned timetable:	2 days per week, to be arranged.			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics, Chemistry with Medicinal Chemistry M.Chem., Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics (or PH5101), Materials Chemistry with External Placement, Materials Chemistry MChem			
Learning and teaching methods and delivery:	Weekly contact: Laboratory-based research project			
	Scheduled learning: 360 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	all staff			

CH5461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Chemistry M.Chem., Chemistry with Medicinal Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics			
Anti-requisite(s):	CH4461			
Learning and teaching methods and delivery:	Weekly contact: 2 classes per week over 9 weeks.			
	Scheduled learning: 21 hours		Guided independent study: 79 hours	
Assessment pattern:	As defined by QAA Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	all staff			

CH5511 Homogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry M.Chem., Materials Chemistry M.Chem., Chemistry with External Placement, Chemistry with Medicinal Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement. Optional for Chemistry with French M.Chem., Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P C J Kamer, Prof R P Tooze			

CH5516 Advanced Ligand Design				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
Phosphines and carbenes represent the most common ligands used in many applications of metal complexes. Recent developments have allowed very precise design of properties of complexes as a result of new ligand design. In this module design principles will be addressed and applications of these important complexes in industry will be discussed.				
Programme module type:	Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with Medicinal Chemistry M.Chem, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P C J Kamer, Dr C S J Cazin			

Chemistry - Honours Level 2012/13 - August 2012

CH5517 Advanced Molecular Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
This module involves three sections: advanced discussion of the properties of selected main group compounds, spectroscopy and magnetism of transition metal complexes, and molecular modeling applied to transition metal complexes.				
Programme module type:	Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with Medicinal Chemistry M.Chem, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof M Buehl, Dr P Kilian, Dr J A Crayston			

CH5518 Blockbuster Solids				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
This module covers two major topics. The first deals with modern materials which have a major impact on our lives, focusing on how the material's structure influences its electrical, magnetic and thermal properties. In the second section, emphasis will be placed on metal organic frameworks and how they can be used for the storage and release of gases.				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement, Chemistry and Geology. Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with Medicinal Chemistry M.Chem, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P Lightfoot, Prof R E Morris			

CH5611 Asymmetric Synthesis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry, Chemistry M.Chem., Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemistry with French M.Chem., Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr M L Clarke, Dr A D Smith			

CH5612 Natural Products, Biosynthesis and Enzyme Co-factors				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry B.Sc., Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics,			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D O'Hagan, Dr T K Smith			

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CH5613 Reactive Intermediates				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
Aspects of the organic chemistry of the most important reactive intermediates viz.: carbo-cations, 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.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry B.Sc., Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics,			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr I A Smellie			

CH5614 Chemical Biology				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry B.Sc., Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof J H Naismith, Dr N J Westwood			

CH5615 Advanced Pharmaceutical Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
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-flourouracil, Zantac, viagra, β -blockers, prozac etc.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry and External Placement. Optional for Chemistry with Mathematics			
Anti-requisite(s):	CH4612			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D O'Hagan and visiting industrial lecturers			

CH5616 Molecular Recognition				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
This module offers a systematic introductory treatment of molecular recognition, emphasising 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.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry M.Chem., Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry B.Sc., Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics.			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D Philp			

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CH5711 Advanced Spectroscopic Methods				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemistry M.Chem., Materials Chemistry M.Chem., Materials Chemistry with External Placement, Chemistry with External Placement, Chemistry with Mathematics. Optional for Chemistry and Geology, Chemistry with French M.Chem., Chemistry with French and External Placement, Chemistry and Physics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials per week.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof M Buck, Dr G Haehner			

CH5712 Functional Materials / Electrons in Solids				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement, Chemistry with Mathematics. Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry and Physics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr F D Morrison, Dr P A Connor			

CH5713 Surface Science and Heterogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement, Chemistry with Mathematics. Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry and Physics.			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr C J Baddeley, Prof P A Wright			

CH5714 Chemical Applications of Electronic Structure Calculations				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
This module will build on the foundations laid in CH2701 and CH3712 and introduce further aspects and methods of modern computational chemistry related to the electronic structures of atoms and molecules. It will be shown how results of such calculations can be used to complement, interpret, and guide experiments in many areas of chemistry.				
Programme module type:	Compulsory for Chemistry with Mathematics. Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry and Physics			
Pre-requisite(s):	CH3712, CH3717			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof M Buehl, Dr J B O Mitchell			

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CH5716 Processing of Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
<p>This module focuses on the processing of materials. Fundamental materials properties such as crystallinity, composition, crystal phase, phase mixing, domain structure, grains and grain boundaries, porosity and pore structure will be covered and the main methods used to control these properties in order to develop and improve materials for specific applications will be addressed. Processes including casting, extrusion, physical and chemical vapour deposition, calcination, sintering, annealing, plasma treatments, mechanical working, crystallisation and dopant addition will be described and explained. Applications in high-value metals, ceramics and semiconductor materials will be emphasised.</p>				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement			
Co-requisite(s):		Required for:		
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof J T S Irvine, Dr M Cassidy			

CH5717 Nanostructured Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
<p>This module will introduce the concepts and science behind the design and synthesis of a wide range of nanostructures and the application of these structures in functional materials and devices. The relationship between nanoscale structure and composition and macroscale properties and behaviour will be emphasised. Structures will be classified and introduced in terms of their number of dimensions: clusters, nanoparticles and quantum dots (0-D); nanotubes, nanowires and nanorods (1-D); nanosheets and films (2-D); and porous crystals, mesoporous structures and metal-organic frameworks (3-D). Other specific topics will include the science of clusters, molecular assemblies and assemblies of nanostructures. Novel carbon based materials, including simple and functionalised fullerenes, carbon nanotubes and graphene and related materials will be described and their physical and chemical properties related to their structure and bonding. Advanced characterisation techniques and applications related to nanotechnology, MEMS, biomaterials, catalysis, and optical and magnetic devices will be addressed.</p>				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry and Geology, Chemistry M.Chem., Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics, Chemistry and Physics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof W Zhou, Prof M Buck			

CH5718 Advanced Polymer Science				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
<p>This module focuses on the properties and applications of polymeric materials, particularly those relevant to materials science applications. It will include structure-property relationships, the major polymer synthesis routes, polymer design and applications of specialised polymeric materials in films, special coatings, dense bodies and foams. The module will cover functional polymer materials and structures for application in electronic and ionic conductors, ion-selective membranes, opto-electronic devices such as organic light-emitting diodes (OLEDs) and photovoltaic cells, and electro-active polymer (EAP) devices in which the size, shape or colour of a polymer element change in response to chemical, thermal, electrical or optical stimuli.</p>				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry, Chemistry with French M.Chem., Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics, Chemistry and Physics			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr P Wormald, Dr W Nazarov, Dr R T Baker			

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InterDisciplinary (ID) Modules

ID4441 Combined Chemistry and Geology Research Project			
SCOTCAT Credits:	50	SCQF Level 10	Semester: Whole Year
Planned timetable:	2 days per week.		
The research project at Level 4000 for Chemistry and Geology 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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)			
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology		
Pre-requisite(s):	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geology		
Anti-requisite(s):	CH4442-CH4448, CH5441		
Learning and teaching methods and delivery:	Weekly contact: Reflection, laboratory work, library work, written and oral presentation preparation.		
	Scheduled learning: 34 hours	Guided independent study: 466 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr T A Raub (Earth Sciences), Dr A Aitken (Chemistry)		

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 four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

Ancient History - Single Honours M.A.

First Year: 40 credits: AN1001 and AN1002.
 Second Year: 40 credits in two of: AN2002, AN2003, CL2003, CL2004 - with passes at grade 11 or better in both.
 Third and Fourth Years:
 60 credits: AN4000 - AN4989;
 150 further credits: AN4000 - AN4989, CL4000 - CL4989 except that students may, with permission of the Heads of School concerned, substitute up to 30 of these credits with 3000- or 4000-level credits in another subject or school.
 30 credits: CL4999 - in Fourth Year only.

Ancient History - Joint Honours M.A.

Ancient History and one of: Art History, Biblical Studies, Comparative Literature, Economics, Film Studies, French^w, German^w, Greek, Italian^w, Latin, Mathematics, Social Anthropology, Spanish^w

^w Available also as 'With Integrated Year Abroad' degree

Ancient History element of Joint Honours M.A.:

First Year: 40 credits: AN1001 and AN1002.
 Second Year: 40 credits in two of: AN2002, AN2003, CL2003, CL2004 - with passes at grade 11 or better in both.
 Third and Fourth Years:
 60 credits: AN4000 - AN4989;
 At least 30 further credits: AN4000 - AN4989, CL4000 - CL4989, (CL4999 - in Fourth Year only).

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Classics - Honours Level 2012/13 - August 2012

Ancient History - Triple Honours M.A.

Modern Languages (two languages) and Ancient History^W

The possible two language combinations are: French-German, French-Italian, French-Russian^R, French-Spanish, German-French, German-Italian, German-Russian^R, German-Spanish, Italian-French, Italian-German, Italian-Russian^R, Italian-Spanish, Russian-French^R, Russian-German^R, Russian-Italian^R, Russian-Spanish^R, Spanish-French, Spanish-German, Spanish-Italian, Spanish-Russian^R

^R Combinations including Ancient History and Russian are only available to non-beginners in Russian

^W Available also as 'With Integrated Year Abroad' degree

Ancient History element of Modern Languages (two languages) and Ancient History

M.A. Honours:

First Year: 40 credits: AN1001 and AN1002.

Second Year: 40 credits in two of: AN2002, AN2003, CL2003, CL2004 - with passes at grade 11 or better in both.

Third and Fourth Years:

Between 60 and 90 credits: AN4000 - AN4989, CL4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Ancient History & Archaeology - Single Honours M.A.

First Year: 40 credits: AN1001 and AN1002.

Second Year: 40 credits in two of: AN2002, AN2003, CL2003, CL2004 - with passes at grade 11 or better in both.

Third and Fourth Years:

30 credits: AN3020 - in Third Year only;

90 credits AN4117, AN4121, AN4125, AN4127, AN4130, AN4145, AN4147, AN4149, AN4151, CL4424, CL4442, (one of ME3014 - ME3497);

90 further credits: AN4000 - AN4989, CL4000 - CL4989, except that students may, with permission of both Heads of School, substitute 30 of these credits with 3000 - level or 4000 - level credits in another subject or school;

30 credits: CL4999 - in Fourth Year only.

Classical Studies - Single Honours M.A.

First and Second Years: **EITHER**

40 credits: CL1004 and CL1005;

40 credits in two of: AN2002, AN2003, CL2003, CL2004, GK2001 - GK2004, LT2001 - LT2004.

OR

40 credits: CL2003 and CL2004;

40 credits in two of: AN1001, AN1002, AN2002, AN2003, CL1004, CL1005, GK1001 - GK1006, GK2001 - GK2004, LT1001 - LT1004, LT2001 - LT2004.

Passes at grade 11 or better must be obtained in at least two 2000-level AN, CL, GK or LT modules.

Third and Fourth Years:

120 credits: CL4000 - CL4989;

90 further credits: AN4000 - AN4989, CL4000 - CL4989, except that students may, with permission of both Heads of School, substitute 30 of these credits with 3000 - level or 4000 - level credits in another subject or School;

30 credits: CL4999 - in Fourth Year only.

Classical Studies - Joint Honours M.A.

Classical Studies and one of: Art History, Biblical Studies^T, Comparative Literature, English, Film Studies, French^W, Geography, Greek, International Relations, Italian^W, Latin, Mathematics, Mediaeval History, Middle East Studies, Modern History, New Testament, Philosophy, Scottish History, Social Anthropology, Theological Studies

^T Timetable clash exists therefore this combination is subject to arrangement between the two departments

^W Available also as 'With Integrated Year Abroad' degree

Classical Studies element of Joint M.A. Honours:

First and Second Years: **EITHER**

40 credits: CL1004 **and** CL1005;

40 credits in two of: AN2002, AN2003, CL2003, CL2004, GK2001 - GK2004, LT2001 - LT2004.

OR

40 credits: CL2003 **and** CL2004;

40 credits in two of: AN1001, AN1002, AN2002, AN2003, CL1004, CL1005, GK1001 - GK1006, GK2001 - GK2004, LT1001 - LT1004, LT2001 - LT2004.

Passes at grade 11 or better must be obtained in at least two 2000-level AN, CL, GK or LT modules.

Third and Fourth Years:

60 credits: CL4000 - CL4989, (CL4999 - in Fourth Year only).

At least 30 further credits: AN4000 - AN4989, CL4000 - CL4989.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Classical Studies - Triple Honours M.A.

Modern Languages (two languages) and Classical Studies^W

The possible two language combinations are: French-Italian, French-Russian, French-Spanish, Italian-French, Italian-Russian, Italian-Spanish, Russian-French, Russian-Italian, Russian-Spanish, Spanish-French, Spanish-Italian, Spanish-Russian

^W Available also as 'With Integrated Year Abroad' degree

Classical Studies element of Modern Languages (two languages) and Classical Studies M.A. Honours:

First and Second Years: **EITHER**

40 credits: CL1004 **and** CL1005;

40 credits in two of: AN2002, AN2003, CL2003, CL2004, GK2001 - GK2004, LT2001 - LT2004.

OR

40 credits: CL2003 **and** CL2004;

40 credits in two of: AN1001, AN1002, AN2002, AN2003, CL1004, CL1005, GK1001 - GK1006, GK2001 - GK2004, LT1001 - LT1004, LT2001 - LT2004.

Passes at grade 11 or better must be obtained in at least two 2000-level AN, CL, GK or LT modules.

Third and Fourth Years:

Between 60 and 90 credits: CL4000 - CL4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Classics - Honours Level 2012/13 - August 2012

Classics - Single Honours M.A.

EITHER

First Year: 40 credits: (GK1001 **with** GK1002) **or** (GK1005 **with** GK1006);
40 credits: (LT1001 **with** LT1002) **or** (LT1003 **with** LT1004);

Second Year: 40 credits: (GK2001 **with** GK2002) **or** (GK2003 **with** GK2004) - with a pass at grade 11 or better in at least one of these;
40 credits: (LT2001 **with** LT2002) **or** (LT2003 **with** LT2004) - with a pass at grade 11 or better in at least one of these.

Third and Fourth Years:

60 credits: GK4000 - GK4999;

60 credits: LT4000 - LT4999;

30 further credits: GK4000 - GK4989; LT4000 - LT4999;

90 further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4989, (DI4705 **or** DI4726), except that students may, with permission of the Heads of School concerned, substitute up to 30 of these credits with 3000- or 4000-level credits in another subject or school.

(continued on next page)

Classics - Single Honours M.A. (continued)**OR**

First Year: 40 credits: GK1001 **and** GK1002.

Second Year: 40 credits: GK2003 **and** LT1001;
20 credits: GK2004 - with a pass at grade 11 or better;
20 credits: LT1002 - with a pass at grade 11 or better.

Third Year: 60 credits LT3017 **and** LT3018;
30 credits: GK4000 - GK4989;
30 further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989.

Fourth Year: 30 credits: LT4000 - LT4989
Further credits: GK4000 - GK4999 if necessary, to a total of at least 60 credits from this range across Third and Fourth Years;
Further credits: GK4000 - GK4999, LT4000 - LT4999 if necessary, to a total of at least 120 credits from these ranges across Third and Fourth Years;
Further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4999 if necessary, to a total of 180 credits from these ranges across Third and Fourth Years, except that students may, with permission of the Heads of School concerned, substitute up to 30 of these credits with 3000- or 4000-level credits in another subject or school.

OR

First Year: 40 credits: LT1001 **and** LT1002.

Second Year: 40 credits: LT2003 **and** GK1001;
20 credits: LT2004 - with a pass at grade 11 or better;
20 credits: GK1002 - with a pass at grade 11 or better.

Third Year: 60 credits GK3021 **and** GK3022;
30 credits: LT4000 - LT4989;
30 further credits: AN4000 - AN4989, CL4000 - CL4989, LT4000 - LT4989.

Fourth Year: 30 credits: GK4000 - GK4989
Further credits: LT4000 - LT4999 if necessary, to a total of at least 60 credits from this range across Third and Fourth Years;
Further credits: GK4000 - GK4999, LT4000 - LT4999 if necessary, to a total of at least 120 credits from these ranges across Third and Fourth Years;
Further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4999, LT4000 - LT4989 if necessary, to a total of 180 credits from these ranges across Third and Fourth Years, except that students may, with permission of the Heads of School concerned, substitute up to 30 of these credits with 3000- or 4000-level credits in another subject or school.

Classics - Honours Level 2012/13 - August 2012

Classics - Joint Honours M.A.

Classics and one of: Comparative Literature, English, French^w, Italian^w, Management, Philosophy, Social Anthropology, Spanish^w

^w Available also as 'With Integrated Year Abroad' degree

First Year: 40 credits: (GK1001 **with** GK1002) **or** (GK1005 **with** GK1006);
40 credits: (LT1001 **with** LT1002) **or** (LT1003 **with** LT1004);

Second Year: 40 credits: (GK2001 **with** GK2002) **or** (GK2003 **with** GK2004) - with a pass at grade 11 or better in at least one of these;

40 credits: (LT2001 **with** LT2002) **or** (LT2003 **with** LT2004) - with a pass at grade 11 or better in at least one of these.

Third and Fourth Years:

30 credits: GK4000 - GK4989;

30 credits: LT4000 - LT4989;

30 further credits: GK4000 - GK4989, LT4000 - LT4989, (GK4999 **or** LT4999 - in Fourth Year only);

30 further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4989.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Greek - Single Honours M.A.

First Year: 40 credits: (GK1001 **with** GK1002) **or** (GK1005 **with** GK1006);

Second Year: 40 credits: (GK2001 **with** GK2002) **or** (GK2003 **with** GK2004) - with a pass at grade 11 or better in at least one of these.

Third and Fourth Years:

At least 30 credits: (GK4998 **or** GK4999) - in Fourth Year only;

Further credits: GK4000 - GK4989, to a total of at least 150 credits in 4000 - level GK modules;

Further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4989 if necessary, to a total of 240 credits across Third and Fourth Years, except that students may, with permission of the Heads of School concerned, substitute up to 30 of these credits with 3000- or 4000-level credits in another subject or school.

Greek - Joint Honours M.A.

Greek and one of: Ancient History, Art History, Biblical Studies, Classical Studies, Comparative Literature, English, French^W, Hebrew, Italian^W, Latin^N, New Testament, Philosophy, Social Anthropology, Spanish^W

^N Not available to entrants from 2013-14 - choose Classics instead

^W Available also as 'With Integrated Year Abroad' degree

Greek element of Joint M.A. Honours:

EITHER

First Year: 40 credits: (GK1001 **with** GK1002) **or** (GK1005 **with** GK1006);

Second Year: 40 credits: (GK2001 **with** GK2002) **or** (GK2003 **with** GK2004) - with a pass at grade 11 or better in at least one of these.

Third and Fourth Years:

Up to 60 credits: (GK4998 **or** GK4999) - in Fourth Year only;

Further credits: GK4000 - GK4989, to a total of at least 90 credits in 4000-level GK modules;

Further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4989 to a total of at least 120 credits in 4000-level AN, CL, GK and LT modules.

OR*

Second Year: 20 credits: GK1001;

20 credits: GK1002 - with a pass at grade 11 or better

Third Year: 60 credits: GK3021 **and** GK3022.

Fourth Year: 60 credits: GK4000 - GK4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

* This alternative pathway is available only to those who have taken First and Second Year beginners' Latin and passed both GK1002 and LT2004 with a grade of 11 or better.

Greek - Triple Honours M.A.

Modern Languages (two languages) and Greek^W

The possible two language combinations are: French-German^G, French-Italian, French-Spanish, German-French^G, German-Italian^G, German-Spanish^G, Italian-French, Italian-German^G, Italian-Spanish, Spanish-French, Spanish-German^G, Spanish-Italian

^G Available only to non-beginners in German

^W Available also as 'With Integrated Year Abroad' degree

Greek element of Modern Languages (two languages) and Greek M.A. Honours:

First Year: 40 credits: (GK1001 **with** GK1002) **or** (GK1005 **with** GK1006);

Second Year: 40 credits: (GK2001 **with** GK2002) **or** (GK2003 **with** GK2004) - with a pass at grade 11 or better in at least one of these.

Third and Fourth Years:

Between 60 and 90 credits: GK4000 - GK4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Classics - Honours Level 2012/13 - August 2012

Latin - Single Honours M.A.

First Year: 40 credits: (LT1001 **with** LT1002) **or** (LT1003 **with** LT1004);
Second Year: 40 credits: (LT2001 **with** LT2002) **or** (LT2003 **with** LT2004) - with a pass at grade 11 or better in at least one of these.
Third and Fourth Years:
30 credits: LT4999 - in Fourth Year only;
120 credits: LT4000 - LT4989;
90 further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4989, except that students may, with permission of the Heads of School concerned, substitute up to 30 of these credits with 3000- or 4000-level credits in another subject or school.

Latin - Joint Honours M.A.

Latin and one of: Ancient History, Arabic^W, Classical Studies, Comparative Literature, English, French^W, Greek^N, Hebrew, Italian^W, Mathematics, Mediaeval History, Middle East Studies, Modern History, New Testament, Philosophy, Russian^W, Social Anthropology, Spanish^W

^N Not available to entrants from 2013-14 - choose Classics instead

^W Available also as 'With Integrated Year Abroad' degree

Latin element of Joint Honours M.A.:

EITHER

First Year: 40 credits: (LT1001 **with** LT1002) **or** (LT1003 **with** LT1004);
Second Year: 40 credits: (LT2001 **with** LT2002) **or** (LT2003 **with** LT2004) - with a pass at grade 11 or better in at least one of these.
Third and Fourth Years:
90 credits: LT4000 - LT4989, (LT4999 - in Fourth Year only);
Further credits: AN4000 - AN4989, CL4000 - CL4989, GK4000 - GK4989, LT4000 - LT4989 to a total of at least 120 credits in 4000 - level AN, CL, GK and LT modules.

OR*

Second Year: 20 credits: LT1001;
20 credits: LT1002 - with a pass at grade 11 or better
Third Year: 60 credits: LT3017 **and** LT3018.
Fourth Year: 60 credits: LT4000 - LT4999.
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

* This alternative pathway is available only to those who have taken First and Second Year beginners' Greek and passed both LT1002 and GK2004 with a grade of 11 or better.

Latin - Triple Honours M.A.

Modern Languages (two languages) and Latin^w

The possible two language combinations are: French-German, French-Italian, French-Russian, French-Spanish, German-French^B, German-Italian^B, German-Russian^B, German-Spanish^B, Italian-French, Italian-German^B, Italian-Russian, Italian-Spanish, Russian-French, Russian-German^B, Russian-Italian, Russian-Spanish, Spanish-French, Spanish-German^B, Spanish-Italian, Spanish-Russian

^B Only available to beginners in German

^w Available also as 'With Integrated Year Abroad' degree

Latin element of Modern Languages (two languages) and Latin - Honours M.A.:

First Year: 40 credits: (LT1001 **with** LT1002) **or** (LT1003 **with** LT1004);

Second Year: 40 credits: (LT2001 **with** LT2002) **or** (LT2003 **with** LT2004) - with a pass at grade 11 or better in at least one of these.

Third and Fourth Years:

Between 60 and 90 credits: LT4000 - LT4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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.

Ancient History (AN) Modules

AN3020 Principles and Techniques in Archaeology			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Availability restrictions:	Available only to students in Honours Ancient History and Archaeology or Honours Mediaeval History and Archaeology		
Planned timetable:	2.00 pm - 4.00 pm Thu.		
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.			
Programme module type:	Compulsory for Ancient History and Archaeology, Mediaeval History and Archaeology		
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and seminars.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Module Co-ordinator:	Dr J Coulston		
Lecturer(s)/Tutor(s):	Dr J Coulston, Dr M Bishop, Dr V Campbell		

AN4105 Roman Egypt				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Wed.			
Of all the societies incorporated in the Roman empire, we know Egypt best, thanks to many thousands of surviving papyri informing us about ordinary Egyptians' daily lives. This course explores Egyptian cultural, social, economic and religious life under Roman rule, with an emphasis on the later empire (284-641 CE). Topics include: the patterns of daily life in Egyptian cities and villages; the survival of Egyptian traditions or their modification under Roman influence; traditional Egyptian cults and Christianity; the city of Alexandria. This course also familiarises students to the use of non-traditional historical sources such as translated papyri and religious texts.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr F Racine			
Lecturer(s)/Tutor(s):	Dr F Racine			

AN4108 The Disintegration of the Roman Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Thu.			
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 CE.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, 2-hour Written Examination = 40%			
Module Co-ordinator:	Dr F Racine			
Lecturer(s)/Tutor(s):	Dr F Racine			

Classics - Honours Level 2012/13 - August 2012

AN4109 Death in Roman Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am Fri.			
<p>Death is universal, but responses to death vary widely from culture to culture. This module explores how death was experienced and coped with, thought about and thought with, in Roman Italy. Textual, visual and material approaches are combined to provide a holistic perspective on Roman death. Key topics include: beliefs about the afterlife and the care due to the dead, the popularity of spectacles of death in the arena, the aristocratic obsession with dying well, the representation of death in literature and art, and the Christian transformation of death.</p>				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Dr M Lavan			

AN4121 The Ancient City of Rome				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Thu.			
<p>This module examines the history and archaeology of the city of Rome from its earliest beginnings to the fifth century CE. Several themes are pursued, 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.</p>				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Dr J Coulston			

AN4127 In the Footsteps of the Ancients: Exploring the Archaeology and Topography of Greece				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am Wed.			
<p>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 ca. 11 days of visits to sites and museums in Athens, Attica, Central Greece and the Peloponnese; these include the Athenian Acropolis and Agora, Delphi, Ossios Loukas, Mycenae, Sparta, Mistras, and Olympia. The module is assessed by an on-site oral presentation and accompanying written submission, a research diary and written site case-study.</p>				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 12 hours of lectures and seminars in St Andrews; on-site lectures and seminars in Greece.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (on-site presentation, 25%; written submission of presentation, 15%; research diary, 20%; site study, 40%)			
Module Co-ordinator:	Dr R Sweetman			
Lecturer(s)/Tutor(s):	Dr R Sweetman			

Classics - Honours Level 2012/13 - August 2012

AN4130 The Roman Army				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Tue.			
<p>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.</p>				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Dr J Coulston			

AN4146 The Supremacy of Greece: Athens and Sparta 479 - 362 BCE				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm - 4.00 pm Tue.			
<p>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.</p>				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Dr S Lewis			

AN4152 Ancient Empires				
COTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Fri.			
This module offers the opportunity for comparative study of the imperial powers of the ancient Mediterranean and Near East. To ensure a manageable workload, it will focus on four case studies, for example the Achaemenid, Seleukid, Roman and Sasanian empires. This will nevertheless be a challenging course, introducing students to much unfamiliar material, and will require wide and disciplined reading. The first half of the course will introduce students to the four imperial systems in turn. The second half will engage in comparative analysis of key aspects of imperial practice, including modes of control, relations with local elites and the extraction of surplus.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60% (2 essays), 2-hour Written Examination = 40%			
Module Co-ordinator:	Dr M Lavan			

Classics (CL) Modules

CL4406 Herodotus				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Tue.			
Herodotus was known, even in antiquity, as both the 'father of history' and the 'father of lies', but his reputation has undergone serious re-evaluation in recent years. This module will examine all aspects of Herodotus' work, and its value as historical evidence, while at the same time seeking to locate the Histories in their late fifth-century intellectual context. Topics will include his ideas of causation, use of sources, the representation of foreign lands and peoples, religious beliefs, geographical understanding, and his implicit critique of Athenian imperialism.				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Anti-requisite(s):	CL3101, AN4122			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr R Anderson			
Lecturer(s)/Tutor(s):	Dr R Anderson			

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CL4420 Fame, Tradition and Narrative: Homer's Iliad				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed.			
<p>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 analyse 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.</p>				
Programme module type:	Optional module for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

CL4421 The Ancient and Modern Novel				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm - 4.00 pm Fri.			
<p>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.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J König			
Lecturer(s)/Tutor(s):	Dr J König			

CL4433 Religions of the Greeks				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Thu.			
<p>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.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr R Anderson			
Lecturer(s)/Tutor(s):	Dr R Anderson			

CL4449 After Virgil: The Aeneid and its Reception				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Fri.			
<p>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 a criticism of the ancient world.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Dr E Buckley			

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CL4452 Knowledge and the World in Hellenistic Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 12.00 noon Tue and 11.00 am - 12.00 noon Thu.			
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.				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars/lectures.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

CL4455 Roman Praise				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Wed.			
This module considers Roman praise-giving in a variety of contexts - educational, familial, legal, social, religious, political - over a large timescale (from the late Republic to the fifth century). The module is designed both to plot changes in Roman praise-culture over time and to identify the key functions of praise in Roman society, from infancy to death. A regular comparandum will be Greek praise, via/against which Roman praise contributed to a sense of Roman cultural identity. Many primary texts in translation, in verse and prose and across several genres, will be read.				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50% (2 source criticisms, 20%; 1 essay, 30%), 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees			

CL4996 Dissertation (Non-Graduating - 60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Either, or Whole Year
Planned timetable:	To be arranged.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Ancient History and Classical Studies Visiting Programmes			
Anti-requisite(s):	CL4997			
Learning and teaching methods and delivery:	Weekly contact: Up to 6 hours of supervisory meetings.			
	Scheduled learning: 6 hours		Guided independent study: 594 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Assessment is via home institution.			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

CL4997 Dissertation (Non-Graduating - 30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Ancient History and Classical Studies Visiting Programmes			
Anti-requisite(s):	CL4996			
Learning and teaching methods and delivery:	Weekly contact: Up to 3 hours of supervisory meetings			
	Scheduled learning: 3 hours		Guided independent study: 297 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Assessment is via home institution.			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

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CL4998 Dissertation (Long) In Classical Studies				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Either, or Whole Year
Availability restrictions:	This module is only available as part of an approved exchange programme.			
Planned timetable:	To be arranged.			
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 Dissertations Co-ordinator. The dissertation will either be completed within one semester or spread over two semesters. The maximum length is 20,000 words (see module booklet for details).				
Programme module type:	Optional for Ancient History and Classical Studies Degrees			
Anti-requisite(s):	CL4999, CL4997, CL4996, LT4999, GK4999, GK4998			
Learning and teaching methods and delivery:	Weekly contact: 6 hours of supervisory meetings			
	Scheduled learning: 6 hours		Guided independent study: 594 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (dissertation) = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required.			

CL4999 Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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 Dissertations Co-ordinator. The dissertation will be completed within one semester, and the maximum length is 10,000 words (see module booklet for details).				
Programme module type:	Compulsory for Ancient History, Classical Studies Single Honours Degrees Optional for Ancient History, Classical Studies Joint Degrees HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History			
Anti-requisite(s):	CL4998, CL4997, CL4996, LT4999, GK4999, GK4998			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of supervisory meetings			
	Scheduled learning: 3 hours		Guided independent study: 297 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required.			

Greek (GK) Modules

GK3021 Greek for Honours Classics 1: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am - 11.00 am 4 days a week (Tues - Fri).			
<p>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 GK1002, are entering Honours Classics or joint Honours Greek 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 selected genres of Greek poetry and prose and aims to foster an awareness of the interrelationships between later and earlier periods of Greek literature, such as Homeric epic and the Greek literature of the Roman empire. For details of each year's prescribed texts, consult the module booklet and/or the School of Classics Honours booklet.</p>				
Programme module type:	Compulsory for Single Honours Classics or Joint Honours Greek Degree students who passed GK1002 in their second year.			
Pre-requisite(s):	Pass at grade 11 or better in GK1002 and in LT2004	Anti-requisite(s):	GK2003	
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.			
	Scheduled learning: 41 hours		Guided independent study: 259 hours	
Assessment pattern:	As defined by QAA: Written Examination = 80%, Practical Examination = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 60% (essay, 20%, 4 class tests, 40%), 2-hour Written Examination = 40%			
Module Co-ordinator:	Dr J König			
Lecturer(s)/Tutor(s):	Team taught			

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GK3022 Greek for Honours Classics 2: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am - 11.00 am 3 days a week (Tues - Fri).			
<p>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 GK1002, are entering Honours Classics or joint Honours Greek 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 selected genres of Greek poetry and prose and aims to foster an awareness of the ways in which different genres and authors can share and manipulate language, strategy and themes. For details of each year's prescribed texts, consult the module booklet and/or the School of Classics Honours booklet.</p>				
Programme module type:	Compulsory for Single Honours Classics or Joint Honours Greek Degree students who passed GK1002 in their second year.			
Pre-requisite(s):	GK3021	Anti-requisite(s):	GK2004	
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examination = 80%, Practical Examination = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 60% (essay, 20%; 4 class tests, 40%), 2-hour Written Examination = 40%			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Team taught			

GK4105 Greek Rhetoric and Its Representation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	4.00 pm - 5.00 pm Tue and 11.00 am - 12.00 noon Fri.			
<p>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.</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial/lecture.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

GK4113 Greeks and Barbarians				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm - 3.00 pm Tue and 2.00 pm - 3.00 pm Fri.			
Exploring Greek identity through representation of non-Greeks was a prominent feature of Greek literature and culture across many centuries. This module examines that theme in a range of authors and periods. It looks first at archaic epic, especially Homer's <i>Odyssey</i> . The central part of the course then focuses on classical Athens, especially Euripides and Aristophanes, as well as a selection of extracts from prose texts (Herodotus is an important reference point, but will not be studied at length as a set text, having been covered at GK 1000-level). The final part of the course then looks ahead, more briefly, to the Hellenistic and Roman worlds, with extracts from the description of India in Philostratus' <i>Life of Apollonius of Tyana</i> .				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J König			
Lecturer(s)/Tutor(s):	Dr J König			

GK4116 Greeks on Education				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	4.00 pm - 5.00 pm Tue and 4.00 pm - 5.00 pm Thu.			
The debate about education in one of the most exciting periods of ancient Athenian history. Can education make you a better person? Could education make you a worse person? What form should a good education take? We shall consider how different Athenian intellectuals conceived of the challenge posed by sophistry, how they tried to distance their own teaching from sophistry, and how they looked within and beyond Athenian culture for models of good (and bad) education. We shall also examine their discussions of whether education can deliver the advantages promised by some educators and their different conceptions of the connection between education and political leadership.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

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GK4118 Greeks and Romans: Greek Literature and Identity to the Age of Augustus				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm - 5.00 pm Thu.			
<p>A stunning variety of Greek literature was produced during the Roman Republic and early Empire, ranging from sophisticated epigrams to Polybius' gripping narrative of Roman power and Strabo's enticing description of the world. They all have one major topic in common: Roman power and its role in the Greek world. We will examine selections from these texts from the point of view of how Roman power is addressed by Greek authors during one of the most exciting and influential periods of antiquity. On the basis of modern conceptions of cultural identity and post-colonialism we will examine such topics as: how did Greeks define the Romans' role in a predominantly Greek world? How did they integrate them into, or try to exclude from, their classical cultural and political heritage? How did this change their own cultural identity? How did the Romans react to such attempts?</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr N Wiater			
Lecturer(s)/Tutor(s):	Dr N Wiater			

GK4998 Dissertation in Greek (Long)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Either, or Whole Year
Availability restrictions:	Available only to students in the final year of the Single Honours Greek programme.			
Planned timetable:	To be arranged.			
<p>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 Dissertations Co-ordinator. The dissertation will be completed over one or two semesters, and the maximum length is 20,000 words (see module booklet for details).</p>				
Programme module type:	Optional for Single Honours Greek Degrees			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, AN4999, LT4999, GK4999			
Learning and teaching methods and delivery:	Weekly contact: 6 hours of supervisory meetings			
	Scheduled learning: 6 hours		Guided independent study: 594 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required.			

GK4999 Dissertation in Greek				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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 Dissertations Co-ordinator. The dissertation will be completed within one semester, and the maximum length is 10,000 words (see module booklet for details).				
Programme module type:	Optional for all Classics and Greek (except Single Honours) Degrees			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, GK4998, LT4999			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of supervisory meetings			
	Scheduled learning: 3 hours		Guided independent study: 297 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required.			

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Latin (LT) Modules

LT3017 Latin for Honours Classics 1			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	2.00 pm - 3.00 pm Tue - Fri.		
<p>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 or joint Honours Latin in their third year. It consists of the whole of the 20-credit LT2003 module, with some additional set text reading in Latin and an additional piece of Honours-level assessment. The module is assessed by one Honours-level essay (30%), one literary criticism (20%) two class tests (10%) and an end-of-semester exam (40%).</p>			
Programme module type:	Compulsory for Single Honours Classics or Joint Honours Latin Degree students who passed LT1002 in their second year.		
Pre-requisite(s):	Passes at grade 11 or better in LT1002 and in GK2004.		
Anti-requisite(s):	LT2003	Required for:	LT3018, LT4203
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 meetings per week plus attendance at selected 4000-level LT seminars.		
	Scheduled learning: 47 hours	Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 60% (1 essay, 30%; 1 literary criticism, 20%; 2 class tests, 10%); 2-hour Written Examination = 40%		
Module Co-ordinator:	Dr R Rees		
Lecturer(s)/Tutor(s):	Team taught		

LT3018 Latin for Honours Classics 2			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Planned timetable:	2.00 pm - 3.00 pm Tue - Fri.		
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 or joint Honours Latin in their third year. It consists of the whole of the 20-credit LT2004 module, with some additional set text reading in Latin and an additional piece of Honours-level assessment.			
Programme module type:	Compulsory for Single Honours Classics or Joint Honours Latin Degree students who passed LT1002 in their second year.		
Pre-requisite(s):	LT3017	Anti-requisite(s):	LT2004
Required for:	LT4203		
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 meetings per week plus attendance at selected 4000-level LT seminars.		
	Scheduled learning: 47 hours	Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 60% (1 essay, 30%; 1 literary criticism, 20%; 1 class tests, 10%); 2-hour Written Examination = 40%		
Module Co-ordinator:	Dr E Buckley		
Lecturer(s)/Tutor(s):	Team taught		

LT4201 Roman Epic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	11.00 am - 1.00 pm Thu.		
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.			
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 55%, Practical Examination = 0%, Coursework = 45%		
	As used by St Andrews: Coursework = 60% (2 commentaries, 30%; essay, 15%, class test, 15%), 2-hour Written Examination = 40%		
Module Co-ordinator:	Dr N Maniotti		
Lecturer(s)/Tutor(s):	Dr N Maniotti		

Classics - Honours Level 2012/13 - August 2012

LT4203 Latin Prose Composition			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	12.00 noon - 1.00 pm Tue and 12.00 noon - 1.00 pm Fri.		
<p>This module will deal with the different ways in which students may make use of their knowledge of Latin in order to produce both translations from English texts into grammatically correct Latin and also free compositions directly in Latin. This will involve a more active process of language learning than is required for translation from Latin into English, though it will also have benefits for the reading of original texts. The content of the module will deal with all aspects of the Latin language that need special study for effective translation into Latin: particles, participles, the treatment of abstract nouns, equivalence between English and Latin idioms, etc.</p>			
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees		
Pre-requisite(s):	LT2001 and LT2002, or LT2003 and LT2004, or LT3017 and LT3018		
Learning and teaching methods and delivery:	Weekly contact: 2 meetings.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 100%, Practical Examination = 0%, Coursework = 0%		
	As used by St Andrews: Coursework = 60% (2 class tests, 30% each), 2-hour Written Examination = 40%		
Module Co-ordinator:	Dr J Coderch		
Lecturer(s)/Tutor(s):	Dr J Coderch		

LT4209 Latin Historical Writing			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	11.00 am - 12.00 noon Wed and 3.00 pm - 4.00 pm Fri.		
<p>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.</p>			
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees		
Anti-requisite(s):	CL4405		
Learning and teaching methods and delivery:	Weekly contact: 2 meetings (lectures or seminars).		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 55%, Practical Examination = 0%, Coursework = 45%		
	As used by St Andrews: Coursework = 60% (2 commentaries, 30%; essay, 15%; class test, 15%), 2-hour Written Examination = 40%		
Module Co-ordinator:	Dr M Lavan		
Lecturer(s)/Tutor(s):	Team taught		

LT4216 The Art of Translation: Ovid in English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am Tue.			
<p>This module offers the opportunity to study, in Latin and English, the theorisation of the activity of translation. The module will explore both ancient and modern theories of translation, invention and originality; examine how and for what purposes classical culture is perceived and transmitted by translation; and test these approaches through the study of a range of influential published translations from two key Ovidian texts, the Amores and Metamorphoses, from two distinct periods: the Renaissance and twentieth century. Alongside analysis of the translations of others, students will develop their own portfolio of creative translations from the prescription, developing their own linguistic and literary critical skills in the process.</p>				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	Admission to Honours in Latin or Classics; or a pass at 11 or better in either LT2002 or LT2004.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 55%, Practical Examination = 0%, Coursework = 45%			
	As used by St Andrews: Coursework = 60% (2 commentaries, 30%; essay, 15%; class test, 15%), 2-hour Written Examination = 40%			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Dr E Buckley			

LT4217 Latin Oratory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Tue.			
<p>Oratory - or 'public-speaking' - was a fundamental medium throughout classical antiquity, in Greek and Roman cultures alike. It dominated mainstream education and was a sine qua non in politics and law, those principle arenas of the aristocracy. But despite being a constant, oratory was far from stable and was frequently theorised, defined, defended and developed. This module looks at some key texts in the history of Latin oratory across times of immense change – the late Republic through to the High Empire.</p>				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examination = 45%, Practical Examination = 0%, Coursework = 55%			
	As used by St Andrews: Coursework = 60% (2 source criticisms, 30%; essay, 15%; class test, 15%); 2-hour Written Examination = 40%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees			

Classics - Honours Level 2012/13 - August 2012

LT4999 Latin Dissertation			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Either
Availability restrictions:	Available only to students in second year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>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 Dissertations Co-ordinator. The dissertation will be completed within one semester, and the maximum length is 10,000 words (see module booklet for details).</p>			
Programme module type:	Optional for all Classics and Latin Degrees		
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, AN4999, GK4999, GK4998		
Learning and teaching methods and delivery:	Weekly contact: 3 hours of supervisory meetings		
	Scheduled learning: 3 hours	Guided independent study: 297 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (Dissertation) = 100%		
Module Co-ordinator:	Dr J Coulston		
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required.		

School of Computer Science

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

M.Sci. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, the final three years of which form an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least 210 credits are at 3000 and 4000 levels.

Exchange schemes: 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.

Computer Science - Single Honours B.Sc.

First Year:	40 credits: CS1002 and CS1004.
Second Year:	60 credits: CS2001 and CS2002 - with passes at grade 11 or better in both.
Third Year:	60 credits: CS3050 - CS3099; 60 credits: CS3100 - CS3399.
Fourth Year:	45 credits: CS4052 and CS4099; 75 credits: up to 30 credits from CS3100 - CS3399, CS5010 - CS5089, ID4001; remaining credits from CS4100 - CS4999.

Computer Science - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	70 credits: CS2002 and CS2101 - with passes at grade 11 or better in both.
Third Year:	60 credits: CS3050 - CS3099; 60 credits: CS3100 - CS3399.
Fourth Year:	45 credits: CS4052 and CS4099; 75 credits: up to 30 credits from CS3100 - CS3399, CS5010 - CS5089, ID4001; remaining credits from CS4100 - CS4999.

Computer Science - Honours Level 2012/13 - August 2012

Computer Science - Joint Honours B.Sc.

Computer Science and one of: Economics, Logic & Philosophy of Science, Management, Management Science, Mathematics, Physics, Psychology or Statistics

Computer Science element of Joint Honours B.Sc.

(except Computer Science and Psychology (with BPS recognition)):

First Year: 40 credits: CS1002 **and** CS1004.

Second Year: 60 credits: CS2001 **and** CS2002 - with passes at grade 11 or better in both.

Third Year: 45 credits: CS3051 **and** CS3052 **and** CS3099;

15 credits: CS3053 **or** CS3100 - CS3999.

Fourth Year: 30 credits: CS4052 **and** CS4098;

30 credits: up to 15 credits from CS3100 - CS3399, CS5010 - CS5089, ID4001; remaining credits from CS4100 - CS4999.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

Computer Science element of Computer Science and Psychology -

Joint Honours B.Sc (with BPS recognition):

First Year: 40 credits: CS1002 **and** CS1004.

Second Year: 60 credits: CS2001 **and** CS2002 - with passes at grade 11 or better in both.

Third Year: 15 credits: CS3051 **or** CS3099;

30 further credits: CS3000 - CS3399.

Fourth Year: 15 credits: CS4098;

30 credits: up to 15 credits from CS5010 - CS5089; remaining credits from CS4050 - CS4999.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

Computer Science - Single Honours M.Sci.

First Year: 40 credits: CS1002 **and** CS1004.

Second Year: 60 credits: CS2001 **and** CS2002 - with passes at grade 15 or better in both.

Third Year: 60 credits: CS3050 - CS3099;

60 credits: CS3100 - CS3399

Fourth Year: 45 credits: CS4052 **and** CS4099;

75 credits: CS3100 - CS3399, CS4100 - CS4999, CS5010 - CS5089, ID4001

Fifth Year: 60 credits: CS5199;

60 further credits: CS3100 - CS3399, CS4100 - CS4999, CS5010 - CS5089, ID5059.

In total, 360 credits must be achieved at 3000, 4000 and 5000 level, with at least 90 of these at 4000 level and at least 120 at 5000 level.

Computer Science - Single Honours M.Sci.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year: 70 credits: CS2002 **and** CS2101 - with passes at grade 15 or better in both.

Third Year: 60 credits: CS3050 - CS3099;

60 credits: CS3100 - CS3399

Fourth Year: 45 credits: CS4052 **and** CS4099;

75 credits: CS3100 - CS3399, CS4100 - CS4999, CS5010 - CS5089, ID4001

Fifth Year: 60 credits: CS5199;

60 further credits: CS3100 - CS3399, CS4100 - CS4999, CS5010 - CS5089, ID5059.

In total, 360 credits must be achieved at 3000, 4000 and 5000 level, with at least 90 of these at 4000 level and at least 120 at 5000 level.

Internet Computer Science - Single Honours B.Sc.

First Year: 40 credits: CS1002 and CS1004.
 Second Year: 90 credits: CS2001 and CS2002 and CS2003 - with passes at grade 11 or better in all.
 Third Year: 45 credits: CS3102 and CS3301 and CS3302;
 60 credits: CS3050 - CS3099;
 15 further credits: CS3100 - CS3399.
 Fourth Year: 45 credits: CS4103 and CS4203 and CS4302;
 45 credits: CS4052 - CS4099;
 30 further credits: CS3100 - CS3399, CS4100 - CS4999, CS5010 - CS5089, ID4001.

Internet Computer Science - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year: 100 credits: CS2002 and CS2003 and CS2101 - with passes at grade 11 or better in all.
 Third Year: 45 credits: CS3102 and CS3301 and CS3302;
 60 credits: CS3050 - CS3099;
 15 credits: CS3100 - CS3399.
 Fourth Year: 45 credits: CS4103 and CS4203 and CS4302;
 45 credits: CS4052 and CS4099;
 30 further credits: CS3100 - CS3399, CS4100 - CS4999, CS5010 - CS5089, ID4001.

Internet Computer Science - Joint Honours B.Sc.

Internet Computer Science and either Economics^N or Mathematics^N
^N These programmes are only available to those already enrolled on them.

Internet Computer Science element of Joint Honours B.Sc.:

First Year: 40 credits: CS1002 and CS1004.
 Second Year: 90 credits: CS2001 and CS2002 and CS2003 - with passes at grade 11 or better in all.
 Third Year: 15 credits: CS3099;
 15 credits: CS3300 - CS3399;
 30 further credits: CS3051, CS3100 - CS3199, CS3300 - CS3399.
 Fourth Year: 15 credits: CS4076 - CS4099;
 15 credits: CS4300 - CS4399;
 15 further credits: CS4100 - CS4199, CS4300 - CS4399;
 15 further credits: CS3000 - CS4999.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

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

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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.

Computer Science (CS) Modules

CS3051 Software Engineering				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
This module gives a broad overview of software engineering, presenting the fundamental aspects as a collaborative professional activity including its concerns and approaches. Students learn to apply a number of different software engineering methods and practices, and to match their choice of method to the problem at hand and the context in which a project is undertaken. The module provides the background for students to enter professional careers where they will be working on large-scale software projects in teams.				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees with subjects other than Psychology, Computer Science M.Sci. Optional for Computer Science and Psychology B.Sc.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3052 Computational Complexity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module builds upon finite state machines, context-free grammars and big-O notation from 2nd year. Turing machines, non-determinism and pushdown automata are introduced, followed by studies on decidability, simulation and the Halting problem. The complexity classes P, NP, co-NP, NP-hard, etc., are described via analysis of SAT and graph isomorphism. Strengths and limitations of the abstract approach to complexity are discussed, followed by an in-depth introduction to practical complexity: flops, worst- and average-case analysis, approximate solutions, and case studies.				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees with subjects other than Psychology, Computer Science M.Sci. Optional for Computer Science and Psychology B.Sc.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3103 and CS3201	
Required for:	CS4052, CS4204			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS3053 Research and Professional Issues in Computing				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Planned timetable:	To be arranged.			
<p>This module develops knowledge of social and professional issues in computer science, along with an understanding of research methodology and some current hot research topics. Guidance, practice and assessment are provided in the preparation and delivery of talks, critical reading of the literature, report and essay writing, including the preparation and presentation of a possible research project. There are team debates on social, ethical and professional issues.</p>				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Computer Science M.Sci. Optional for joint Computer Science degrees.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS4051	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, 1 tutorial.			
	Scheduled learning: 66 hours		Guided independent study: 84 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3099 Software Team Project				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	To be arranged.			
<p>This module allows students to take part in a substantial software engineering project as part of a team, using professional development techniques. Each team specifies, plans, designs, implements and documents a medium-sized software system, under the guidance of a member of staff. Cooperation within and between teams is essential in order to produce successful solutions.</p>				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees with subjects other than Psychology, Computer Science M.Sci. Optional for Computer Science and Psychology B.Sc.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Required for:	CS4099	
Learning and teaching methods and delivery:	Weekly contact: Lectures, supervisor meetings and demonstrations arranged as necessary.			
	Scheduled learning: 69 hours		Guided independent study: 81 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS3101 Databases				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module introduces data models and modeling techniques, relational design and normalisation. It also examines a range of issues in database implementation, including indexing, query processing, transactions and recovery.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sc.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3102 Data Communications and Networks				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
This module introduces the basics of data communications and computer networks, and examines network protocols and architectures.				
Programme module type:	Compulsory for Internet Computer Science B.Sc. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sc.			
Pre-requisite(s):	(CS2001 or CS2101), CS2002 and CS2003	Required for:	CS4103, CS4302	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3104 Operating Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
This module examines the changing role of the operating system, the concept and implementation of process, the OS/hardware interface with regard to storage and protection, and the techniques developed to achieve safety and throughput in multitasking systems.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS2001 or CS2101) and CS2002	Required for:	CS4202, CS4204	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3105 Artificial Intelligence				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module examines the general features of the A.I. problem solving process, and in particular the various forms of heuristic, together with their implementation and case studies of real systems.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS4101	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS3106 Human Computer Interaction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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 gain experience of current interactive audio, visual and manipulative technologies.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS4104	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3301 Component Technology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module provides students with understanding of current and emerging component technologies, focusing on the major themes of object-oriented and message-oriented middleware. The first theme examines the evolution of object-oriented programming into component models such as CORBA, COM, RMI and Java Beans. The second theme explores the emerging field of message-oriented middleware.				
Programme module type:	Compulsory for Internet Computer Science B.Sc. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	(CS2001 or CS2101), CS2002 and CS2003			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3302 Data Encoding				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
This module explains the techniques used to encode data, emphasising the ideas of security and secrecy, error correcting capabilities, and data compression.				
Programme module type:	Compulsory for Internet Computer Science B.Sc. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	(CS2001 or CS2101), CS2002 and CS2003	Required for:	CS4203	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4052 Logic and Software Verification				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
Building on earlier coverage of elementary logic, this module covers the topics of formal proof, including induction, as applied to software specification, validation and verification. A proof assistant such as PVS or Coq is employed both in lectures and in practical work. Software correctness is thus presented as a matter not of testing but of pre-execution verification.				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees with subjects other than Psychology, Computer Science M.Sci. Optional for Computer Science and Psychology B.Sc.			
Pre-requisite(s):	CS3052	Anti-requisite(s):	CS3202	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS4098 Minor Software Project				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged.			
This module has the same content as CS4099, but with reduced scope appropriate for Joint Honours students.				
Programme module type:	Compulsory for Joint Computer Science degrees.			
Anti-requisite(s):	CS4099			
Learning and teaching methods and delivery:	Weekly contact: Individual supervision			
	Scheduled learning: 69 hours		Guided independent study: 81 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4099 Major Software Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged.			
This module allows students to undertake a substantial software engineering project using professional development techniques. Each student designs, specifies and constructs a medium-sized software system, or undertakes 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.				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Computer Science M.Sci.			
Pre-requisite(s):	CS3099	Anti-requisite(s):	CS4098	
Learning and teaching methods and delivery:	Weekly contact: Individual supervision.			
	Scheduled learning: 69 hours		Guided independent study: 231 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4102 Computer Graphics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module covers the fundamental concepts of computer graphics, and develops 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.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4103 Distributed Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness.				
Programme module type:	Compulsory for Internet Computer Science B.Sc. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS3102			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS4201 Programming Language Design and Implementation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module studies the design and implementation of programming languages. Topics include 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.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4202 Computer Architecture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS3104			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4203 Computer Security				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks.				
Programme module type:	Compulsory for Internet Computer Science B.Sc. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS3302	Anti-requisite(s):	IS5104	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4204 Concurrency and Multi-Core Architectures				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
Multi-core programming is a new paradigm in computer science that is likely to be dominant in the next decade; already, all the microprocessors in computers and game consoles are multiprocessor-based. This module presents the key concepts of concurrent programming, ranging from theoretical foundations to the analysis of patterns and performance issues in developing this class of programs and systems.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS3052, CS3104	Co-requisite(s):	CS4202	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS4302 Multimedia				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks.				
Programme module type:	Compulsory for Internet Computer Science B.Sc. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS3102			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4303 Video Games				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. These are developed as practical skills through lectures and laboratories, culminating in the creation of actual games.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4402 Constraint Programming				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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 optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sc.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week, fortnightly tutorial and practical classes.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4499 Computer Science (Special Subject)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
This module is a guided reading module on any aspect of Computer Science not covered by other available modules, intended only for students in the School of Computer Science for whom exceptional timetable arrangements (such as a semester or year of absence) unduly restrict the availability of modules.				
Programme module type:	Optional for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sc.			
Pre-requisite(s):	Entry to an Honours programme in the School of Computer Science, and the consent of the Head of School			
Learning and teaching methods and delivery:	Weekly contact: Tutorials, guided reading, essays, presentations and practical classes.			
	Scheduled learning: 11 hours		Guided independent study: 139 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level 2012/13 - August 2012

CS5011 Artificial Intelligence Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. A basic understanding of an AI programming language is provided. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation.				
Programme module type:	Compulsory for Artificial Intelligence Taught Postgraduate Programme. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Required for:	CS5012, CS5019			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

CS5012 Language and Computation				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition.				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS5011			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

CS5021 Advanced Networks				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
This module covers layered architectures, protocol concepts, data link protocols, reliability, resource utilisation, Internet architecture, network tools, and security threats.				
Programme module type:	Compulsory for Networks and Distributed Systems Taught Postgraduate Programme. Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Required for:	CS5023, CS5029			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

CS5023 Mobile and Wireless Networks				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems.				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS5021			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

Computer Science - Honours Level 2012/13 - August 2012

CS5031 Software Engineering Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Planned timetable:	To be arranged.			
<p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p>				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Required for:	CS5032, CS5033, CS5039			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

CS5032 Critical Systems Engineering				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
<p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p>				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS5031			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

CS5033 Software Architecture				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
<p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p>				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS5031			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

CS5041 User-Centred Interaction Design				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
<p>Desktop and mobile computing are evolving as advanced interactive technologies change our view of applications, services, gaming and computing. This module focuses on interaction between one or more humans and one or more computational machines. It studies both the mechanism side and the human side, with a focus on a class of devices beyond the desktop. The module examines the design, evaluation and implementation of interactive technologies and computing systems for human use.</p>				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

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CS5199 Individual Masters Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	Full-time for one semester.			
This module allows students to undertake a major software engineering or research project, under the guidance of an individual supervisor. The project builds on experience gained in CS4099, although the topic must differ significantly from the 4000-level project.				
Programme module type:	Compulsory for M.Sci. Honours Computer Science			
Pre-requisite(s):	CS4099, Entry to M.Sci. Honours Computer Science	Anti-requisite(s):		
Co-requisite(s):		Required for:		
Learning and teaching methods and delivery:	Weekly contact: Individual supervision.			
	Scheduled learning: 45 hours		Guided independent study: 555 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	cs5000.coord@cs.st-andrews.ac.uk			

ID5059 Knowledge Discovery and Datamining				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
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, characterise 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 and 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.				
Programme module type:	Optional for M.Sci. in Computer Science			
Anti-requisite(s):	MT5759			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr C R Donovan and Dr T Kelsey			

School of Divinity

Including: Ancient History, Classical Studies, Greek and Latin

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

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.

** IMPORTANT NOTES **

Students entering Fourth Year (Senior Honours) of any programme in 2012-13 should see the appropriate 2011-12 Course Catalogue entry for the requirements to complete their Honours programme. The code for the 30-credit dissertation module has changed from DI4501 to DI4498.

Biblical Studies - Single Honours M.A.

First Year:	40 credits: DI1003 and DI1006; 20 credits: DI1004 or DI1005.
Second Year:	40 credits: DI2001 and DI2003 - with passes at grade 11 or better in both. 20 credits: DI2002 or DI2201.
Third Year:	30 credits: DI3711 or DI3712; 30 credits in two of: DI3713 - DI3715; 60 credits: DI4600 - DI4749, DI4750 - DI4789.
Fourth Year:	60 credits: DI4499; 60 further credits: DI4600 - DI4749, DI4750 - DI4789, (DI4015 with ID4002)

Divinity - Honours Level 2012/13 - August 2012

Biblical Studies - Joint Honours M.A.

Biblical Studies and one of: Ancient History, Art History, Classical Studies, Comparative Literature, Economics, English, Film Studies, French^W, German^{WT}, Greek, Hebrew, International Relations, Mathematics, Mediaeval History, Philosophy

^W Available also as 'With Integrated Year Abroad' degree

^T Timetable clash exists therefore this combination is subject to arrangement between the two departments

Biblical Studies element of Joint Honours M.A.:

First Year: 40 credits: DI1003 **and** DI1006;
20 credits: DI1004 **and** DI1005.

Second Year: 40 credits: DI2001 **and** DI2003 - with passes at grade 11 or better in both.
20 credits: DI2002 **or** DI2201.

Third Year: 30 credits: DI3711 **or** DI3712;
30 credits: DI3713 - DI3715, DI4600 - DI4749, DI4750 - DI4789.

Fourth Year: 60 credits: DI4499;

or

60 further credits: DI4600 - DI4749, DI4750 - DI4789, (DI4015 **with** ID4002), if a 4000-level dissertation or comparable independent research project is taken in the other Honours subject.

Divinity - Single Honours B.D.

First Year: 80 credits comprising DI1001, DI1012, DI1003, DI1006.

Second Year: 40 credits with passes at 11 or better from DI2000, DI2001, DI2003, DI2006;
20 further credits from DI2000, DI2001, DI2003, DI2006;
20 further credits from DI2000, DI2001, DI2002, DI2003, DI2006, DI2201 (PY2001 AND PY2002), PY2003, PY2004, (PY2101 AND PY2102) or any other 2000-level module in a cognate subject area with the permission of the Head of School.

Third Year: 30 credits comprising (DI3701 and DI3702) or (DI3711 and DI3712);
30 credits comprising DI4498;
60 credits from DI4600 - DI4989;
30 further credits from DI4600 - DI4989 (or from a cognate subject area with the permission of the Head of School of Divinity and any other School involved).

Hebrew - Joint Honours M.A.

Hebrew and one of: Arabic^W, Art History, Biblical Studies, Comparative Literature, English, French^W, Geography, Greek, Latin, Mathematics, Middle East Studies, New Testament, Russian^W

^W Available also as 'With Integrated Year Abroad' degrees

Hebrew element of Joint Honours M.A.:

First Year: 40 credits: DI1003 **and** DI1004.

Second Year: 40 credits: DI2001 **and** DI2002 - with passes at grade 11 or better in both.

Third Year: 30 credits: DI3711 **or** DI3712;
30 credits: DI3713 - DI3715, DI4700 - DI4749, DI4750 - DI4789.

Fourth Year: 60 credits: DI4499;

or

60 further credits: DI4700 - DI4749, DI4750 - DI4789, (DI4015 **with** ID4002), if a 4000-level dissertation or comparable independent research project is taken in the other Honours subject.

New Testament - Joint Honours M.A.

New Testament and one of: Classical Studies, German^W, Greek, Hebrew, Latin, Modern History
^W Available also as 'With Integrated Year Abroad' degree

New Testament element of Joint Honours M.A.

First Year: 40 credits: DI1005 **and** DI1006.
 Second Year: 40 credits: DI2201 **and** a pass at 11 or better in DI2003.
 Third Year: 30 credits: DI3711 **and** DI3712;
 30 credits: DI3713 - DI3715, DI4600 - DI4699, DI4750 - DI4789.
 Fourth Year: 60 credits: DI4499;
or
 60 further credits: DI4600 - DI4699, DI4750 – DI4789, (DI4015 **with** ID4002), if a 4000-level dissertation or comparable independent research project is taken in the other Honours subject.

Theological Studies Single Honours M.A.

First Year: 40 credits: DI1001 **and** DI1012.
 Second Year: 40 credits: DI2000 **and** DI2006 - with passes at grade 11 or better in both.
 Third Year: 30 credits: DI3701 **and** DI3702;
 30 credits in two of: DI3703 - DI3705;
 60 credits: DI4800 - DI4989, DI4750 - DI4789.
 Fourth Year: 60 credits: DI4499;
 60 further credits: DI4800 - DI4989, DI4750 - DI4789, (DI4015 **with** ID4002).

Theological Studies - Joint Honours M.A.

Theological Studies and one of: Classical Studies, English, Film Studies, French^W, Geography, German^W, International Relations^T, Mathematics, Mediaeval History^T, Modern History, Philosophy, Psychology, Russian^W, Social Anthropology, Spanish^W

^W Available also as 'With Integrated Year Abroad' degree

^T Timetable clash exists, combination subject to arrangement by both Departments

Theological Studies element of M.A. Joint Honours

First Year: 40 credits: DI1001 **and** DI1012.
 Second Year: 40 credits: DI2000 **and** DI2006 - with passes at grade 11 or better in both.
 Third Year: 30 credits: DI3701 **and** DI3702;
 30 credits: DI3703 - DI3705, DI4750 - DI4789, DI4800 - DI4989.
 Fourth Year: 60 credits: DI4499;
or
 60 further credits: DI4750 - DI4789, DI4800 - DI4989, (DI4015 **with** ID4002), if a 4000-level dissertation or comparable independent research project is taken in the other Honours subject.

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Master of Theology - Honours M.Theol.

First Year:	80 credits: DI1001 and DI1012 and DI1003 and DI1006.
Second Year:	40 credits in two of: DI2000, DI2001, DI2003, DI2006 - with passes at grade 11 or better in both. 20 further credits from: DI2000, DI2001, DI2003, DI2006; 20 further credits from: DI2000, DI2001, DI2002, DI2003, DI2006, DI2201 (PY2001 AND PY2002), PY2003, PY2004, (PY2101 AND PY2102) or any other 2000 - level module in a cognate subject area with the permission of the Head of School.
Third Year:	60 credits: DI3701 and DI3702 and DI3711 and DI3712; 30 credits: (DI3703 - DI3705); 30 credits: (DI3713 - DI3715).
Fourth Year:	60 credits: DI4499; 60 further credits: DI4600 - DI4989, (DI4015 with ID4002).

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

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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.

Divinity (DI) Modules

DI3701 Reading in Patristic Theology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged. (Classes held in Weeks 1 - 5 essay submitted week 6)			
This module involves close study of key texts of Patristic theology, setting these in the context of historical developments and conflicts and noting the development of key theological themes and language. Texts will be studied chronologically, with readings drawn from the writings of figures such as Justin Martyr, Irenaeus, Tertullian, Origen, Athanasius, the Cappadocian Fathers, Augustine, and the early Ecumenical Councils. Students will be expected to read broadly in the primary texts, with specific readings assigned for closer attention.				
Programme module type:	Compulsory for M.Theol., B.D., and Theological Studies			
Anti-requisite(s):	DI3602			
Co-requisite(s):	DI3702	Required for:	DI4935	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof I Davidson			
Lecturer(s)/Tutor(s):	Prof I Davidson			

DI3702 Reading in Mediaeval Theology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged. (Classes held in Weeks 7 - 11; essay submitted week 12)			
This module involves close study of key texts of Mediaeval theology, setting these in the context of historical developments and conflicts and noting the development of key theological themes and language. Texts will be studied chronologically, with readings drawn from the writings of figures such as Anselm, Abelard, Lombard and Aquinas.				
Programme module type:	Compulsory for M.Theol., B.D., and Theological Studies			
Anti-requisite(s):	DI3602			
Co-requisite(s):	DI3701	Required for:	DI4935	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr S Holmes			
Lecturer(s)/Tutor(s):	Dr S Holmes			

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DI3703 Reading in Reformation and Early Modern Theology			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Planned timetable:	To be arranged. (Classes held in Weeks 1 - 5 essay submitted in week 6)		
This module involves close study of key texts of Reformation and counter-Reformation theology, setting these in the context of historical developments and noting the development of key theological themes and language. Texts will be studied chronologically, with attention paid to their contexts in the ecclesiastical developments and conflicts of the early modern period, as well as to their formative influence on the modern world. Students will be expected to read broadly in the primary texts, with specific readings assigned for closer attention.			
Programme module type:	Either DI3703 or DI3704 is compulsory for M.Theol., B.D., and Single Honours Theological Studies. Optional for Joint Honours Theological Studies		
Anti-requisite(s):	DI3704	Co-requisite(s):	DI3705
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.		
	Scheduled learning: 15 hours	Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr M Elliott		
Lecturer(s)/Tutor(s):	Dr M Elliott		

DI3704 Reading in Practical Theology			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Planned timetable:	To be arranged. (Classes held in Weeks 1 - 5 essay submitted in week 6)		
This module involves close study of key texts of modern practical theology, discussing the methodological principles that govern the discipline, its intersection with ecclesiology, sociology and ethics, the challenges in developing responsible practical theologies and the intellectual location of the discipline in the contemporary climate and in relation to traditional theological categories. As such, the module will facilitate advanced and critical study of practical/pastoral theology as well as exploring the ethical issues associated with research in this area.			
Programme module type:	Either DI3703 or DI3704 is compulsory for M.Theol., B.D., and Single Honours Theological Studies Optional for Joint Honours Theological Studies		
Anti-requisite(s):	DI3703		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.		
	Scheduled learning: 15 hours	Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof M Aguilar		
Lecturer(s)/Tutor(s):	Prof M Aguilar		

DI3705 Reading in Modern Theology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged. (Classes held in Weeks 7 - 11)			
<p>This module involves close study of key texts of Modern theology, setting these in the context of historical developments and noting the development of key theological themes and language. Texts will be studied chronologically, with readings drawn from the writings of figures such as Schleiermacher, Kierkegaard, Barth, the modern liberal theologians and the modern Catholic theologians, such as Hans Urs von Balthasar. Students will be expected to read broadly in the primary texts, with specific readings assigned for closer attention.</p>				
Programme module type:	Compulsory for M.Theol., B.D., and Single Honours Theological Studies Optional for Joint Honours Theological Studies			
Co-requisite(s):	DI3703 or DI3704			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Module Co-ordinator:	Prof T Hart			
Lecturer(s)/Tutor(s):	Prof T Hart			

DI3711 Reading in the Old Testament / Hebrew Bible				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged. (Classes held in Weeks 1 - 5 essay submitted Week 6)			
<p>Reading the Old Testament/Hebrew Bible is an integrative discipline that brings together close reading, linguistic skill, historical sensitivity, literary perception, compositional technique, and theological analysis. This module is designed to develop the technical and analytical skills needed to read the OT/HB in its original historical, literary, and theological contexts. The student will be introduced to the sub-disciplines of textual criticism, semantics/lexicography, scribal composition, and literary analysis (of prose and poetry). As an exercise in applied hermeneutics, the approach throughout is practical, in which the student will be learning methods by practicing them. The purpose of the module is to prepare the students to endeavour their own close readings of the OT/HB throughout their honours programme.</p>				
Programme module type:	Compulsory for Biblical Studies, M.Theol., B.D., Hebrew, New Testament and Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr W Tooman			
Lecturer(s)/Tutor(s):	Dr W Tooman			

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DI3712 Reading in the New Testament			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged. (Classes held in Weeks 7-11 essay submitted Week 12)		
<p>Reading the New Testament is an integrative discipline that brings together textual evaluation, historical perspective, literary sensitivity, and theological analysis. Building on the work done in Reading the Old Testament, this module is designed to develop further the analytical skills needed to read the NT in its original historical, literary, and theological contexts. To that end, the student will be introduced to the sub-disciplines of textual criticism, lexicography, translation theory, tradition-history, discourse analysis, and synoptic criticism. As an exercise in applied hermeneutics, the approach throughout is practical, in which the student will be learning the various methods by practicing them. The purpose of the module is to prepare the students to begin their own reading of the New Testament throughout their Honours programme.</p>			
Programme module type:	Compulsory for Biblical Studies, M.Theol., B.D., Hebrew, New Testament and Theological Studies		
Co-requisite(s):	DI3711	Anti-requisite(s):	DI3601
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.		
	Scheduled learning: 15 hours	Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr S Hafemann		
Lecturer(s)/Tutor(s):	Dr S Hafemann		

DI3713 Reading in Second Temple Contexts			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Planned timetable:	To be arranged. (Classes held in Weeks 1-5 essay submitted in Week 6)		
<p>This module will examine the methodological principles and concerns related to the use of Second Temple texts as background or context to the study of the Bible, including the difficult question of identifying the provenance of given Pseudepigrapha and the potential value of specific texts to the reconstruction of Biblical contexts. The issues will be explored through close examination of specific texts, such as the Dead Sea Scrolls and the Old Testament Pseudepigrapha.</p>			
Programme module type:	Compulsory for Single Honours Biblical Studies, M.Theol., B.D., and Theological Studies Optional for Joint Honours Biblical Studies, Hebrew, New Testament		
Co-requisite(s):	DI3714 or DI3715		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.		
	Scheduled learning: 15 hours	Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof J Davila		
Lecturer(s)/Tutor(s):	Prof J Davila		

DI3714 Reading the Bible Theologically				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged. (Classes held in Weeks 7 - 11)			
This module will introduce students to the practices of canonical criticism, theological interpretation and effective history, allowing students to bring together the theological and biblical components of their studies and to develop critical awareness of the strengths and weaknesses of the different theological hermeneutics. These methods will be explored through the close study of biblical texts, read according to such methodologies, with the findings contrasted with the typical results of historical criticism. This will enable students to practice such methods themselves, laying an important foundation for subsequent study.				
Programme module type:	Either DI3714 or DI3715 is compulsory for Single Honours Biblical Studies, M.Theol., B.D., and Theological Studies Optional for Joint Honours Biblical Studies, Hebrew, New Testament			
Co-requisite(s):	DI3713	Anti-requisite(s):	DI3715	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Module Co-ordinator:	Dr M Elliott			
Lecturer(s)/Tutor(s):	Dr M Elliott			

DI3715 Reading the Bible in Late Modernity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged. (Classes held in Weeks 7 - 11)			
This module will introduce students to the distinctive kinds of biblical readings that have arisen in Late Modernity. Students will engage with the Social Scientific interpretation of the Bible and the way in which this connects with and facilitates the various "hermeneutics of suspicion" with their sensitivity to power structures and social coercions. At every stage of the module, the issues will be explored through the reading of biblical texts and scholarly interpretations of these.				
Programme module type:	Either DI3714 or DI3715 is compulsory for Single Honours Biblical Studies, M.Theol., B.D., and Theological Studies Optional for Joint Honours Biblical Studies, Hebrew, New Testament			
Co-requisite(s):	DI3713	Anti-requisite(s):	DI3714	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Module Co-ordinator:	Prof M Aguilar			
Lecturer(s)/Tutor(s):	Prof M Aguilar			

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DI4015 Communication in Divinity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module is part of the 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes of Divinity to contemporary contexts. It is available only to participants in the placement module.				
Programme module type:	Optional for Single Honours Biblical Studies, M.Theol. and Theological Studies			
Co-requisite(s):	ID4002			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of individual supervision per semester.			
	Scheduled learning: 3 hours		Guided independent study: 147 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Stoddart			
Lecturer(s)/Tutor(s):	Dr E Stoddart			

DI4498 Honours Dissertation in Divinity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Biblical Studies, Hebrew, New Testament, Theological Studies and M.Theol. unless a dissertation or project is taken in the other Joint Honours subject.			
Anti-requisite(s):	DI4501, DI4502, DI4499			
Learning and teaching methods and delivery:	Weekly contact: 6 hours of individual supervision each semester			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Divinity Director of Teaching			
Lecturer(s)/Tutor(s):	Divinity Director of Teaching			

DI4511 Church History Special Topic: Aquinas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module shall consider the Summa Theologiae of Thomas Aquinas, with particular focus on the Third Part, which mainly concerns Christology. The question of the relationship of this Part to the rest of the Summa and hence of Christology to the doctrine of God and creation as set out there will be addressed. The influences, purposes and effects of this classic work will also be treated.				
Programme module type:	Optional for M.Theol, B.D., Single Honours, MA Theological Studies and Joint Honours M.A. Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr M Elliott			
Lecturer(s)/Tutor(s):	Dr M Elliott			

DI4550 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Only available to Baylor University students.			
Planned timetable:	To be arranged.			
Description to follow.				
Programme module type:	Baylor University programme.			
Pre-requisite(s):	Baylor University programme.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (To be confirmed)			
Module Co-ordinator:	Baylor Programme Director			
Lecturer(s)/Tutor(s):	Baylor Programme Director			

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DI4551 Baylor University Module			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Availability restrictions:	Only available to Baylor University students.		
Planned timetable:	To be arranged.		
Description to follow.			
Programme module type:	Baylor University programme.		
Pre-requisite(s):	Baylor University programme.		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100% (To be confirmed)		
Module Co-ordinator:	Baylor Programme Director		
Lecturer(s)/Tutor(s):	Baylor Programme Director		

DI4608 Gospel of Matthew (English Texts)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	To be arranged.		
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.			
Programme module type:	Optional module for M.Theol., M.A. Biblical Studies, M.A. New Testament, B.D.		
Pre-requisite(s):	DI1006, DI3601	Anti-requisite(s):	DI4609
Learning and teaching methods and delivery:	Weekly contact: 1 lecture / seminar.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Take Home Examination = 50%		
Module Co-ordinator:	Dr E Shively		
Lecturer(s)/Tutor(s):	Dr E Shively		

DI4609 Gospel of Matthew (Greek Texts)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for M.Theol., M.A. Biblical Studies, M.A. New Testament, B.D.			
Pre-requisite(s):	DI1005, DI1006, DI3601	Anti-requisite(s):	DI4608	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Take Home Examination = 50%			
Module Co-ordinator:	Dr E Shively			
Lecturer(s)/Tutor(s):	Dr E Shively			

DI4615 New Testament Special Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
This module allows students the possibility of pursuing a special topic in the New 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.				
Programme module type:	Optional for Biblical Studies, New Testament and M.Theol.			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Examination = 50%			

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DI4626 The Book of Revelation : English Texts			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
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.			
Programme module type:	Optional for Biblical Studies, New Testament and M.Theol.		
Anti-requisite(s):	DI4627		
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Module Co-ordinator:	Dr E Shively		
Lecturer(s)/Tutor(s):	Dr E Shively		

DI4627 The Book of Revelation : English and Greek Texts			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
The module will examine the Book of Revelation (The Revelation of St John) in its biblical, historical and contemporary contexts. The core of the module 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.			
Programme module type:	Optional for Biblical Studies, New Testament and M.Theol.		
Pre-requisite(s):	DI1005 or equivalent	Anti-requisite(s):	DI4626
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar per week and 1-hour Greek reading seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Module Co-ordinator:	Dr E Shively		
Lecturer(s)/Tutor(s):	Dr E Shively		

DI4711 Old Testament Special Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Biblical Studies, Hebrew, New Testament, Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			

DI4712 The Dead Sea Scrolls: English Text				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Biblical Studies, Hebrew, New Testament, Theological Studies			
Anti-requisite(s):	DI4713			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof J Davila			
Lecturer(s)/Tutor(s):	Prof J Davila			

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DI4713 The Dead Sea Scrolls: Hebrew Text			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	To be arranged.		
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. Key texts will be read in Hebrew, with the rest in English translation.			
Programme module type:	Optional for Biblical Studies, Hebrew, New Testament, Theological Studies		
Pre-requisite(s):	11 or better in DI2002 and either DI2001 or DI2003		
Anti-requisite(s):	DI4712		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and a 1-hour Hebrew reading session.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Prof J Davila		
Lecturer(s)/Tutor(s):	Prof J Davila		

DI4728 Poetry and Prayer : An Introduction to the Psalms			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
This module continues the study of the Old Testament in DI1003 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 will be studied. Different methods for analyzing and reading psalms will be applied.			
Programme module type:	Optional for Biblical Studies, Hebrew and M.Theol.		
Pre-requisite(s):	11 or better in DI2001	Anti-requisite(s):	DI4729
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Module Co-ordinator:	Prof K De Troyer		
Lecturer(s)/Tutor(s):	Prof K De Troyer		

DI4729 Poetry and Prayer : An Introduction to the Psalms (Hebrew)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module continues the study of the Old Testament in 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 will be studied. Different methods for analysing and reading Psalms will be applied. The Hebrew variant of this module will consist of reading the Psalms in the Hebrew Masoretic Text and exploring the Qumran Hebrew text of Ps 151.				
Programme module type:	Optional for M.A. Biblical Studies, Hebrew, B.D., and M.Theol.			
Pre-requisite(s):	11 or better in DI2001, and 11 or better in DI2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and a 1-hour Hebrew reading session			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Prof K De Troyer			
Lecturer(s)/Tutor(s):	Prof K De Troyer			

DI4800 Theology and Pastoral Care				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module is designed to introduce students to the subject of pastoral care and counselling from theological and spiritual perspectives. It considers the historical development of pastoral and spiritual care in the Christian tradition, whilst giving most attention to contemporary models of pastoral care. Students will explore life-long pastoral care, disability, care in the context of sexuality, mental illness, health, death and grief.				
Programme module type:	Optional for Theological Studies and M.Theol.			
Pre-requisite(s):	11 or better in DI2005			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr E Stoddart			
Lecturer(s)/Tutor(s):	Dr E Stoddart			

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DI4805 Practical Theology Special Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Theological Studies and M.Theol.			
Pre-requisite(s):	DI1002 and 11 or better in DI2005			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			

DI4819 Monarchy, Church and National Identity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module explores the relationship between church and state in the United Kingdom. There is a particular emphasis on the spiritual role and ecclesiastical function of the monarch, as understood biblically, historically and in contemporary terms. In the light of current constitutional change and debate about the future role of monarchy, the module looks at various models of church state relations.				
Programme module type:	Optional for Theological Studies and M.Theol.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr I Bradley			
Lecturer(s)/Tutor(s):	Dr I Bradley			

DI4823 Worship and the Word: Liturgy and Homiletics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module examines the practice of worship and preaching within Christian churches in historical, theological and practical perspectives. Students will explore differing accounts of the components of Christian liturgy and hymnody, and the theological commitments driving them, and will discuss the relevance, nature and practice of Christian preaching. In addition to classics texts and traditional forms, attention will be paid to the 'new homiletic' arising from the USA over the last generation, and to patterns of alternative worship. Assessment will include a significant practical element.				
Programme module type:	Optional for Theological Studies and M.Theol.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2- hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 25%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Practical Examination = 25%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr I Bradley			
Lecturer(s)/Tutor(s):	Dr I Bradley, Dr S Holmes			

DI4824 Theology in Latin America				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module explores the history and development of theology in Latin America from 1968 to 2004, the period from the Conference of Medellin (1968) to the publication of Petrella's The Future of Liberation Theology (2004). The module considers the work of Gutiérrez, Boff, Irarrazábal, Támez, and Romero among others and their contribution to contemporary eco-theology, inculturation and political theology.				
Programme module type:	Optional for Theological Studies and M.Theol.			
Anti-requisite(s):	DI4818			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Prof M Aguilar			
Lecturer(s)/Tutor(s):	Prof M Aguilar			

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DI4915 Theology Special Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
This module allows students the possibility of pursuing a special topic in 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.				
Programme module type:	Optional for Theological Studies, and M.Theol.			
Pre-requisite(s):	normally DI3602			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture and 1-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			

DI4924 Theology and Imagination				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module will examine the nature and status of the imagination and its role in religious contexts. We will consider a range of approaches or modes of theological engagement with the arts, though we will also consider a variety of artworks, in different media - such as popular music and science fiction - as a way of testing the cogency of these models and exploring the possibility that works of art may be able to do things that propositional theological discourse cannot				
Programme module type:	Optional for Theological Studies, and M.Theol.			
Pre-requisite(s):	DI1001, DI2000			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr G Hopps			
Lecturer(s)/Tutor(s):	Dr G Hopps			

DI4928 Theological Anthropology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Theological Studies and M.Theol.			
Pre-requisite(s):	11 or better in DI2004			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and occasional lectures.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Continuous Assessment = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Prof A Torrance			
Lecturer(s)/Tutor(s):	Prof A Torrance			

DI4936 Theology and Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This interdisciplinary module is concerned with the diverse ways in which literature may serve as a text 'of' and 'for' theology. It will introduce students to a variety of theoretical approaches and then will focus on a range of key theological issues, which will be discussed in relation to a selection of 'great texts' from different genres and periods of literature, such as The Divine Comedy, Paradise Lost, Lyrical Ballads, In Memoriam, and Four Quartets.</p>				
Programme module type:	Optional for Theological Studies, and M.Theol.			
Pre-requisite(s):	DI3701 and DI3702			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr G Hopps			
Lecturer(s)/Tutor(s):	Dr G Hopps			

InterDisciplinary (ID) Module

ID4002 Communication and Teaching in Arts and Humanities				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the Schools of Divinity, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.			
Planned timetable:	To be arranged.			
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.				
Programme module type:	Optional for Divinity, Geography, History, International Relations, Modern Languages or Philosophy.			
Co-requisite(s):	If taken within Divinity, History, International Relations or Philosophy, a further 15-credit subject-specific module may be required.			
Learning and teaching methods and delivery:	Weekly contact: The module commences with an Induction Event at the University (3 hours). Students spend a minimum of 20 hours during the semester at their placement. 3 x 1-hour tutorials are held at the University during the semester. The module concludes with an oral presentation session.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100% comprising: Written project proposal (10%) + written report (35%) = 45% Oral presentation (at University, assessed by module lecturers) = 30% A further 25% of Coursework is in the form of a report by their placement-mentor on the student's practical performance in the classroom on placement.			
Module Co-ordinator:	Dr E Stoddart			

School of Economics & Finance

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

M.Sci. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years form an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least 210 credits are at 3000 and 4000 levels.

Exchange schemes: 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.

Applied Economics - Single Honours B.Sc. or M.A.

First Year:	40 credits: EC1001 and EC1002.
Second Year:	40 credits: EC2001 and EC2002 - with passes at grade 11 or better in both. 20 credits: EC2003 and EC2004. <i>(Students who have passed MT2004 are exempted from EC2003; students who have passed MT1001 or MT1002 are exempted from EC2004.)</i>
Third Year:	75 credits: EC3201 and EC3202 and EC3203; Between 15 and 45 credits: EC4203, EC4302, EC4303, EC4501 - EC4509, EC4511 - EC4590, or from selected MN and IR modules approved by the Head of School.
Fourth Year:	30 credits: EC4205; Further credits: EC4203, EC4302, EC4303, EC4501 - EC4509, EC4511 - EC4590 or from selected MN and IR modules approved by the Head of School, to total at least 105 credits from this group.
In total, at least 90 credits must be achieved at 4000 level.	

Applied Quantitative Finance - Single Honours M.Sci.

Third, Fourth and Fifth Years:	75 credits: EC3201 and MT3504 and MT3607 and MT3706 (unless already passed in Second Year); 45 credits: EC4501 and EC4502 and MT4551; 120 credits: EC5399 (in Fifth Year only) and (EC5203 or EC5221), (EC5202 or EC5204) and EC5722 and MT5812; 30 further credits: 5000-level EC or MT modules; 60 further credits: 3000-, 4000- or 5000-level EC or MT modules; Further credits to total 360 across the Third, Fourth and Fifth Years of the programme.
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Economics & Finance - Honours Level - August 2012

Economics – Single Honours B.Sc. or M.A.

First Year:	40 credits: EC1001 and EC1002.
Second Year:	40 credits: EC2001 and EC2002 - with passes at grade 11 or better in both; 20 credits: EC2003 and EC2004. <i>(Students who have passed MT2004 are exempted from EC2003; students who have passed MT1001 or MT1002 are exempted from EC2004.)</i>
Third Year:	75 credits: EC3201 and EC3202 and EC3203; 45 credits: EC4204, EC4501 - EC4590.
Fourth Year:	75 credits: EC4201 and EC4202 and EC4203; 45 further credits: EC4204, EC4300, EC4501 - EC4590.

Economics - Joint Honours B.Sc. or M.A.

(B.Sc. Honours): Economics and one of: Biology, Computer Science, Environmental Geoscience ^N , Geoscience ^N , Internet Computer Science ^N , Management, Management Science, Mathematics, Psychology, Statistics. ^N Not available to entrants from 2011-12	(M.A. Honours): Economics and one of: Ancient History, Arabic ^W , Biblical Studies, English, Film Studies, Geography, German ^W , International Relations, Italian ^W , Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Russian ^W , Social Anthropology, Spanish ^W , Statistics ^W Available also as 'With Integrated Year Abroad' degree
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Economics element of Joint Honours B.Sc. or M.A.:

First Year:	40 credits: EC1001 and EC1002.
Second Year:	40 credits: EC2001 and EC2002 - with passes at grade 11 or better in both; 20 credits: EC2003 and EC2004. <i>(Students who have passed MT2004 are exempted from EC2003; students who have passed MT1001 or MT1002 are exempted from EC2004.)</i>
Third Year:	60 credits: EC3201 and EC3203;
Fourth Year:	15 credits: EC3202; At least 45 credits: EC4201 - EC4204, EC4302, EC4501 - EC4590.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Financial Economics - Single Honours B.Sc. or M.A.

First Year:	40 credits: EC1001 and EC1002.
Second Year:	40 credits: EC2001 and EC2002 - with passes at grade 11 or better in both; 20 credits: EC2003 and EC2004. <i>(Students who have passed MT2004 are exempted from EC2003; students who have passed MT1001 or MT1002 are exempted from EC2004.)</i>
Third Year:	75 credits: EC3201 and EC3202 and EC3203; 30 credits: EC4501 and EC4502; 15 credits in one of: EC4503 - EC4590.
Fourth Year:	75 credits: EC4201 and EC4202 and EC4204; 45 further credits: EC4203, EC4300, EC4503 - EC4590

Economics 'with'... - Honours M.A.

Economics with German^w, Russian^w, Social Anthropology, or Spanish^w

^w Available also as 'With Integrated Year Abroad' degree

Economics Major element of M.A. Honours 'with' degree:

First Year: 40 credits: EC1001 **and** EC1002.

Second Year: 40 credits: EC2001 **and** EC2002 – with passes at grade 11 or better in both.

20 credits: EC2003 **and** EC2004.

(Students who have passed MT2004 are exempted from EC2003; students who have passed MT1001 or MT1002 are exempted from EC2004.)

Third Year: 75 credits: EC3201 **and** EC3202 **and** EC3203;

15 credits in one of: EC4501 - EC4590.

Fourth Year: 30 credits: EC4203;

60 further credits: EC4201 - EC4202, EC4204, EC4300, EC4501 - EC4590.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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

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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.

Economics (EC) Modules

EC3201 Advanced Microeconomics			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Availability restrictions:	Not normally available to General Degree Students.		
Planned timetable:	10.00 am Mon, Tue and Wed.		
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.			
Programme module type:	Compulsory for Applied Economics, Applied Quantitative Finance (M.Sci.), Economics, Financial Economics		
Required for:	EC4203		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures		
	Scheduled learning: 45 hours	Guided independent study: 255 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 15%		
	As used by St Andrews: Coursework = 30%, 3-hour Examination = 70%		
Module Co-ordinator:	Ms L Pert-Davies		
Lecturer(s)/Tutor(s):	Dr J Jin		

EC3202 Econometrics 1 : The Classical Linear Regression Model				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am Thu and Fri.			
<p>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.</p>				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics			
Required for:	EC4202			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and a laboratory.			
	Scheduled learning: 48 hours		Guided independent study: 102 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Report = 40%, Presentation = 20%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr J Sohkanen			

EC3203 Advanced Macroeconomics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am Mon, Tue and Wed.			
<p>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.</p>				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics			
Required for:	EC4203			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial or laboratory.			
	Scheduled learning: 45 hours		Guided independent study: 255 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: Coursework = 30%, 3-hour Examination = 70%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr S Kim, Dr A Trew			

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EC4201 Economic Analysis			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	10.00 am Mon, Tue and Wed.		
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.			
Programme module type:	Compulsory for Single Honours Economics, Financial Economics. Optional for Joint Honours Economics		
Required for:	EC4204		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial or laboratory.		
	Scheduled learning: 45 hours	Guided independent study: 255 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 15%		
	As used by St Andrews: Coursework = 30%, 3-hour Examination = 70%		
Module Co-ordinator:	Ms L Pert-Davies		
Lecturer(s)/Tutor(s):	Dr A Nichifor, Dr A Trew		

EC4202 Econometrics 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	10.00 am Thu and Fri.		
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.			
Programme module type:	Compulsory for Single Honours Economics, Financial Economics. Optional for Joint Honours Economics		
Pre-requisite(s):	EC3202	Required for:	EC4204
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week and 6 tutorials per-semester.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Coursework = 30%, 2-hour Examination = 70%		
Module Co-ordinator:	Ms L Pert-Davies		
Lecturer(s)/Tutor(s):	Dr I Smith		

EC4203 Contemporary Issues				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am Thu and Fri.			
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.				
Programme module type:	Compulsory for Single Honours Economics. Optional for Applied Economics, Joint Honours Economics, Financial Economics			
Pre-requisite(s):	EC3201, EC3203			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 seminar			
	Scheduled learning: 29 hours		Guided independent study: 271 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 40%, 3-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Prof A Hughes-Hallett, Dr M La Manna, Dr L Savorelli, Dr G Selvaretnam, Prof D Ulph			

EC4204 Financial Economic Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	12.00 noon Mon, Wed, Fri.			
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.				
Programme module type:	Compulsory for Financial Economics Optional for Economics			
Pre-requisite(s):	EC4501, EC4502, EC4201, EC4202			
Learning and teaching methods and delivery:	Weekly contact: 20 lectures and 6 seminars per semester.			
	Scheduled learning: 38 hours		Guided independent study: 262 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: Coursework = 30%, 3-hour Examination = 70%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Selvaretnam, Dr G Shea			

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EC4205 Economic Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the second year of the Applied Economics Honours Programme.			
Planned timetable:	4.00 pm - 6.00 pm Tue.			
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.				
Programme module type:	Compulsory for Applied Economics			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examination = 70%, Practical Examination = 15%, Coursework = 15%			
	As used by St Andrews: Coursework = 40%, 3-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr L Lasselle			

EC4300 Dissertation in Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Single Honours Economics or Single Honours Financial Economics Programmes.			
Planned timetable:	None, but attendance at the departmental research colloquia required.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Single Honours Economics, Financial Economics			
Anti-requisite(s):	EC4301			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 3 supervision meetings per semester.			
	Scheduled learning: 5 hours		Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examination = 0%, Practical Examination = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 15%, Dissertation = 85%			
Module Co-ordinator:	Dr P Macmillan			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

EC4302 Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Availability restrictions:	Available only to students in the second year of the Single Honours Applied Economics Programmes or of a joint degree involving Economics.			
Planned timetable:	None, but attendance at the departmental research colloquia required.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Applied Economics, Joint Honours Economics			
Anti-requisite(s):	EC4303			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 3 supervision meetings per semester.			
	Scheduled learning: 5 hours		Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examination = 0%, Practical Examination = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 15%, Dissertation = 85%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

EC4501 Capital Investment Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm Thu, Fri.			
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.				
Programme module type:	Compulsory for Applied Quantitative Finance (M.Sci.), Financial Economics. Optional for Economics, Applied Economics			
Required for:	EC4204, EC4502			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week and occasional seminars.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Shea			

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EC4502 Corporate Finance			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Planned timetable:	3.00 pm Thu, Fri.		
<p>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.</p>			
Programme module type:	Compulsory for Applied Quantitative Finance (M.Sci.), Financial Economics. Optional for Economics, Applied Economics		
Pre-requisite(s):	EC4501	Required for:	EC4204
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week and occasional seminars.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%		
Module Co-ordinator:	Ms L Pert-Davies		
Lecturer(s)/Tutor(s):	Dr G Shea		

EC4505 Environmental Economics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)		
Learning and teaching methods and delivery:	Weekly contact: 2 lectures.		
	Scheduled learning: 27 hours	Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%		
Module Co-ordinator:	Ms L Pert-Davies		
Lecturer(s)/Tutor(s):	Prof F FitzRoy		

EC4508 Industrial Organisation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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 un-sustainability. 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.</p>				
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			

EC4509 International Finance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Forgues-Puccio			

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EC4510 Issues in Economic Policy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	4.00 pm - 6.00 pm Tue.			
<p>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.</p>				
Programme module type:	Optional for Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Anti-requisite(s):	EC4205			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr L Lasselle			

EC4512 Law and Economics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr I Smith			

EC4514 Monetary Policy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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 module surveys the experience of major countries with different policy frameworks over the last quarter of a century.				
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Prof A Hughes-Hallett			

EC4517 Small Business Economics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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 module considers rational bases for small-firm formation, attitude to risk, distribution of entrepreneurial ability, and division of labour, amongst other topics. Under evidence, the module looks at matters like the size distribution of firms, and empirical models of performance, growth, flexibility and survival. Under policy, the module 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.				
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Prof G Reid			

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EC4519 Development Economics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>The module covers some important theoretical and practical aspects of development economics. In low income countries markets often fail, wealth can be distributed very unequally and the quality of governance can be variable. International markets matter for trade and aid while international bodies such as the World Bank play a crucial role. Understanding the causes of underdevelopment can help us understand how to unlock the sustained growth experienced by developed economies. Specific topics can include income inequality, poverty, education, corruption, gender, foreign investment, aid, microfinance and international trade policy. The course will draw on evidence across countries and over time, with an emphasis on developing an analytical understanding of the applied issues.</p>				
Programme module type:	Optional for Economics, Applied Economics, Financial Economics, Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Examination = 60%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Selvaretnam			

EC5399 Dissertation				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Planned timetable:	To be arranged.			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory module Applied Quantitative Finance (M.Sci.)			
Learning and teaching methods and delivery:	Weekly contact: Individual Supervision			
	Scheduled learning: 5 hours		Guided independent study: 395 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Dissertation = 85%, 15-Minute Examination = 15%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

School of English

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

English - Single Honours M.A.

First Year: 40 credits in two of: EN1003, EN1004, CO1001, CO1002
 Second Year: 40 credits: EN2003 **and** EN2004 - with passes at grade 11 or better in both.
 Third and Fourth Years:
 30 credits in one of: EN3111 - EN3140, EN4311 - EN4340 (*Group A*);
 30 credits in one of: EN3141 - EN3160, EN4341 - EN4360 (*Group B*);
 30 credits in one of: EN3161 - EN3189, EN4361 - EN4389 (*Group C*);
 30 credits: EN4399 (Fourth Year only);
 120 further credits: EN3000 - EN4999, except that students may, with permission of both Heads of School, substitute 30 of these credits with 3000- level or 4000- level credits in another School.

In total, at least 90 credits must be achieved at 4000 level.

English - Joint Honours M.A.

English and one of: Arabic ^W, Art History, Biblical Studies, Classical Studies, Classics, Comparative Literature, Economics, Film Studies, French ^W, German ^W, Greek, Hebrew, Italian ^W, Latin, Management, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Russian ^{E W}, Scottish History, Social Anthropology, Spanish ^W, Theological Studies

^E Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead. Reversal of first-level and second-level EN modules is not allowed.

^W Available also as 'With Integrated Year Abroad' degree

English element of Joint Honours M.A.:

First Year: 40 credits in two of: EN1003, EN1004, CO1001, CO1002
 Second Year: 40 credits: EN2003 **and** EN2004 - with passes at grade 11 or better in both.
 Third and Fourth Years:
 30 credits in one of: EN3111 - EN3140, EN4311 - EN4340 (*Group A*) **or** EN3141 - EN3160, EN4341 - EN4360 (*Group B*) **or** EN3161 - EN3189, EN4361 - EN4389 (*Group C*);
 Between 60 and 120 further credits: EN3000 - EN4999.
 Students may take 30 credits at 3000 or 4000 level in a third school (provided that the requirements for both Joint Honours subjects are met), with permission of the Head of that School and the Head of the School of English.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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English - Triple Honours M.A.

Modern Languages (two languages) and English^W

The possible two language combinations are: French-German, French-Italian, French-Russian^E, French-Spanish, German-Italian, German-Russian^E, German-Spanish, Italian-Russian^E, Italian-Spanish, Russian-Spanish^E

^E Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead. Reversal of first-level and second-level EN modules is not allowed.

^W Available also as 'With Integrated Year Abroad' degree

English element of M.A Honours including two Modern Languages:

First Year: 40 credits in two of: EN1003, EN1004, CO1001, CO1002

Second Year: 40 credits: EN2003 **and** EN2004 - with passes at grade 11 or better in both.

Third and Fourth Years:

90 credits in three of: EN3000 - EN4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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.

English (EN) Modules

EN3111 Beowulf			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	9.00 and 10.00 am Wed.		
<p>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)</p>			
Programme module type:	Group A Optional for English		
Anti-requisite(s):	EN3010, ME3012		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours		
	Scheduled learning: 44 hours	Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr C Rauer		
Lecturer(s)/Tutor(s):	Dr C Rauer		

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EN3112 Chaucer's Canterbury Tales				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed.			
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)				
Programme module type:	Group A Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr I R Johnson			
Lecturer(s)/Tutor(s):	Dr I R Johnson			

EN3113 Unreformed Scotland: Older Scots Literature to 1560				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am Tue and 11.00 am Thu.			
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)				
Programme module type:	Group A Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examination = 30%, Practical Examination = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Module Co-ordinator:	Dr M R Purdie			
Lecturer(s)/Tutor(s):	Dr M R Purdie			

EN3141 Tragedy in the Age of Shakespeare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	12.00 noon Tue and 2.00 pm Thu.			
The aim of the module is to develop an understanding of different versions of tragedy in the English Renaissance. (Group B)				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof N P P Rhodes			
Lecturer(s)/Tutor(s):	Prof N P P Rhodes			

EN3142 Renaissance Literature: Texts and Contexts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon Tue and 12.00 noon Thu.			
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)				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 tutorial, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof N P P Rhodes			
Lecturer(s)/Tutor(s):	Prof N P P Rhodes			

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EN3161 The Development of the Novel to 1840				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Tue and 12.00 noon Thu.			
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)				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr T E Jones			
Lecturer(s)/Tutor(s):	Dr T E Jones			

EN3163 The Younger Romantics: Poetry and Prose (1810 - 1830)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Thu and 11.00 am Fri.			
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)				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 hours: seminars, lectures or tutorials, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof N H Roe			

EN3164 Self and Society in the Victorian Novel				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	2.00 pm Tue and 10.00 am Fri.			
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)				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per week, 1 fortnightly seminar and 1 fortnightly tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Mr P V Mallett			
Lecturer(s)/Tutor(s):	Mr P V Mallett			

EN3201 Literary Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Fri.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr B Davies			
Lecturer(s)/Tutor(s):	Dr B Davies			

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EN3202 Literature and Ecology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Thu and 11.00 am Fri			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof J P Burnside			
Lecturer(s)/Tutor(s):	Prof J P Burnside			

EN3206 Aspects of Modern Fiction				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	12.00 noon Mon and 12.00 noon Fri.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per week, 1 fortnightly seminar and 1 fortnightly tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C Alt			
Lecturer(s)/Tutor(s):	Dr C Alt			

EN3207 Twentieth-Century British and Irish Drama				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon Mon and 12.00 noon Wed.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr P H Parry			
Lecturer(s)/Tutor(s):	Dr P H Parry			

EN3209 Scottish Fiction				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am Mon and 10.00 am Wed.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C J M MacLachlan			
Lecturer(s)/Tutor(s):	Dr C J M MacLachlan			

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EN3210 Twentieth-Century American Drama				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon Tue and 12.00 noon Thu.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr P H Parry			
Lecturer(s)/Tutor(s):	Dr P H Parry			

EN3211 Culture and Society in Modern Scotland				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Mon.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof D Paterson			
Lecturer(s)/Tutor(s):	Prof D Paterson			

EN4311 Old English Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Mon.			
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)				
Programme module type:	Group A Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 tutorials, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C Rauer			
Lecturer(s)/Tutor(s):	Dr C Rauer			

EN4312 Authorising English: Society, Gender and Religion in Late Mediaeval English Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm and 4.00 pm Mon.			
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)				
Programme module type:	Group A Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr I R Johnson			
Lecturer(s)/Tutor(s):	Dr I R Johnson			

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EN4315 Apocalyptic Literature in Early English			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	3.00 pm - 5.00 pm Mon.		
<p>Christianity has always incorporated within its beliefs and institutions an inbuilt expectation of the End of Time, as brought about by the Second Coming of Christ and the Day of Judgment. On this module students will examine the expression of that apocalyptic expectation in a number of literary genres in English, including Biblical texts, chronicles, homilies, and poems from the early medieval period. These texts sometimes include colourful depictions of hell, the Antichrist, and dragons in the sky, but can also be intensely political, as well as theologically involved. Students will translate and study these works in Old English (or Anglo-Saxon) and Early Middle English. Previous experience with this language is necessary. (Group A)</p>			
Programme module type:	Group A Optional for English		
Pre-requisite(s):	EN2003		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours		
	Scheduled learning: 44 hours	Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr C S Jones		
Lecturer(s)/Tutor(s):	Dr C S Jones		

EN4316 Courtly Literature in Middle English			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	11.00 am Tue and 12.00 noon Thu		
<p>This module explores the idea of 'courtly literature' through detailed study of some of the most influential poems in Middle English. Alongside Chaucer's Troilus and Criseyde, students might read works such as Gower's Confessio Amantis, Sir Gawain and the Green Knight or The Floure and the Leafe. The aim of the module is to study fewer, larger texts in greater depth, allowing students to get to grips with the depth and complexity of these canonical works and the literary-critical issues they raise. A central critical issue to be explored is the heated modern debate over the notion of 'courtly love'. (Group A)</p>			
Programme module type:	Group A Optional for English		
Pre-requisite(s):	EN2003 (for St Andrews students - may be waived for JSA students).		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours		
	Scheduled learning: 44 hours	Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr R Purdie		
Lecturer(s)/Tutor(s):	Dr R Purdie		

EN4341 Renaissance Sexualities: Rhetoric and the Body 1580 - 1660				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Tue and 2.00 pm Thu.			
<p>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)</p>				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof L M Hutson			
Lecturer(s)/Tutor(s):	Prof L M Hutson			

EN4342 Restoration Theatre				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	12.00 noon Mon and 10.00 am Fri.			
<p>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)</p>				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr M C Augustine			
Lecturer(s)/Tutor(s):	Dr M C Augustine			

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EN4343 Literature and Law in Early Modern England				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am Thu and 11.00 am Fri.			
<p>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)</p>				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof L M Hutson			
Lecturer(s)/Tutor(s):	Prof L M Hutson			

EN4344 Early English Romance Comedy: Shakespeare and his Contemporaries				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Mon and 11.00 am Wed.			
<p>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 alongside contemporary poetry and prose fiction. About half the texts studied will be by Shakespeare. (Group B)</p>				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar/tutorial and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr A L Davis			
Lecturer(s)/Tutor(s):	Dr A L Davis			

EN4345 Hard Cases: Literary Complexity from Donne to Pope				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Mon			
During the English Renaissance it was widely understood that literature ought to 'instruct by pleasing'. This module is concerned with those writers and texts that seem to ignore this imperative. Why, we will ask, do writers from John Donne to Alexander Pope go out of their way to challenge or baffle or confuse or overwhelm their readers? What are the forms, conditions, and uses of literary complexity? This module might alternatively be called 'How To Read Hard Renaissance Texts.' Likely authors studied will include Donne, Marvell, Cavendish, Milton, Dryden, Swift, Pope. (Group B)				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr M C Augustine			
Lecturer(s)/Tutor(s):	Dr M C Augustine			

EN4346 The Early Tudors: Literature and Reformation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am Tue and Thu			
This module explores poetry, prose and drama from the reign of Henry VIII through to the early years of Elizabeth I's rule. It will examine the remodelling of literary forms in a period of religious and political 'reformation', combining broad cultural and historical perspectives with in-depth textual analysis. Key texts include: More's Utopia; the poetry of Wyatt, Surrey and Skelton; early sixteenth-century religious verse; and the allegorical drama Everyman. Students will have the opportunity to write on the reception of this period in film, novels, the visual arts, etc. (Group B)				
Programme module type:	Group B Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr A L Davis			
Lecturer(s)/Tutor(s):	Dr A L Davis			

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EN4361 The Novels of Jane Austen in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am - 12.00 noon Mon.			
<p>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)</p>				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S J Stabler			
Lecturer(s)/Tutor(s):	Dr S J Stabler			

EN4362 Mind, Body and Soul: Literature in the Enlightenment				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Tue and 2.00 pm Thu.			
<p>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)</p>				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr T E Jones			
Lecturer(s)/Tutor(s):	Dr T E Jones			

EN4363 Romantic Writing and Women				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm Tue and 10.00 am Fri.			
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)				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture/seminar and 1 tutorial/seminar and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S C Manly			
Lecturer(s)/Tutor(s):	Dr S C Manly			

EN4364 The Art of Victorian Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Fri.			
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 industrialised 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)				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S J Lodge			
Lecturer(s)/Tutor(s):	Dr S J Lodge			

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EN4365 Literature and Childhood in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Wed.			
This module introduces students to some of the key themes and concerns of literature written for and about children in the eighteenth and early nineteenth centuries via the study of selected key works by a range of philosophical and political thinkers, educationalists, fiction writers and poets. Engaging in close reading of key texts, and drawing on contemporary discussions of and recent critical work on children's literature, students will consider the literary, social and political contexts and consequences associated with the imagining and interpretation of childhood and children's reading. (Group C)				
Programme module type:	Group C Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S C Manly			
Lecturer(s)/Tutor(s):	Dr S C Manly			

EN4399 Dissertation in English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am Fri.			
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)(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Single Honours English. Optional for Joint Honours English			
Pre-requisite(s):	A pass in any 3000-level English module.			
Learning and teaching methods and delivery:	Weekly contact: 6 hours per semester + 1 consultation hour weekly.			
	Scheduled learning: 17 hours		Guided independent study: 283 hours	
Assessment pattern:	As defined by QAA: Written Examination = 0%, Practical Examination = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Mr P V Mallett			
Lecturer(s)/Tutor(s):	Team taught			

EN4402 Speeches and Speechwriting: History, Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	3.00 pm Tue and 2.00 pm Fri			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, seminars and practical classes, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S J Lodge			
Lecturer(s)/Tutor(s):	Dr S J Lodge			

EN4403 Mediaevalism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	3.00 pm and 4.00 pm Tue.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 weekly seminar/lecture, 1 weekly tutorial/seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C S Jones			
Lecturer(s)/Tutor(s):	Dr C S Jones			

English - Honours Level 2012/13 - August 2012

EN4405 Contemporary Poetry in Great Britain and Ireland				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Tue.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof D Paterson			
Lecturer(s)/Tutor(s):	Prof D Paterson			

EN4406 Contemporary British Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 12.00 noon Mon and Thu.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S J Dillon			
Lecturer(s)/Tutor(s):	Dr S J Dillon			

EN4407 Twentieth-Century Crime Fiction: Gender and Genre				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof G M Plain			
Lecturer(s)/Tutor(s):	Prof G M Plain			

EN4408 Science Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am Tue and 10.00 am Thu			
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 colonisation; alternate histories; apocalypse; race, sex and gender, and cyberspace. (Group E)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S J Dillon			
Lecturer(s)/Tutor(s):	Dr S J Dillon			

English - Honours Level 2012/13 - August 2012

EN4409 Modern American Drama				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am Tue and 12.00 noon Thu.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr P H Parry			
Lecturer(s)/Tutor(s):	Dr P H Parry			

EN4413 Reading the 1940's				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm - 5.00 pm Tue and Film Viewing 2.00 pm - 5.00 pm Fri.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar , and 2 optional consultative hours			
	Scheduled learning: 66 hours		Guided independent study: 234 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof G M Plain			
Lecturer(s)/Tutor(s):	Prof G M Plain			

EN4414 Thomas Hardy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am Tue and 10.00 am Thu.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per week, 1 fortnightly seminar and 1 fortnightly tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Mr P V Mallett			
Lecturer(s)/Tutor(s):	Mr P V Mallett			

EN4415 T.S. Eliot				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed.			
The module aims to familiarise 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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr J Levina			
Lecturer(s)/Tutor(s):	Dr J Levina			

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EN4416 Virginia Woolf				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm - 5.00 pm Thu.			
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)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar/tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr J D Byatt			
Lecturer(s)/Tutor(s):	Dr J D Byatt			

EN4417 Creative Writing 1				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm Tue.			
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)				
Programme module type:	Group E Optional for English			
Anti-requisite(s):	EN4420			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Ms M F Delahunt and Mr J B Polley			
Lecturer(s)/Tutor(s):	Ms M F Delahunt and Mr J B Polley			

EN4418 American Poetry since 1950				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Mon.			
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. (Group E)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof J P Burnside			
Lecturer(s)/Tutor(s):	Prof J P Burnside			

EN4419 American Fiction: Self and Nation, 1865 - 1939				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm and 3.00 pm Fri.			
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. (Group E)				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr J D Byatt			
Lecturer(s)/Tutor(s):	Dr J D Byatt			

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EN4420 Creative Writing 2				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	12.00 noon Tue and 1 workshop to be arranged.			
Creative Writing 2 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. (Group E)				
Programme module type:	Group E Optional for English			
Anti-requisite(s):	EN4417			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 workshop, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examination = 0%, Practical Examination = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Ms L G Glaister and Mr J B Polley			
Lecturer(s)/Tutor(s):	Ms L G Glaister and Mr J B Polley			

EN4421 J R R Tolkien				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm Tue and 10.00 am Fri.			
This module will look closely at Tolkien's three best-know works, The Hobbit, The Lord of the Rings and The Silmarillion, relating them to each other and to other works by Tolkien, particularly his essay 'On Fairy Stories' in which he offers his definition of fantasy writing and its value, and some of his shorter fiction. The module explores some of the range of interpretations that have emerged to explain what Tolkien meant. Tolkien's contribution to the theory and practices of fantasy fiction will be assessed and the relation of his work to his idea of an English national literature explored. (Group E).				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C J M MacLachlan			
Lecturer(s)/Tutor(s):	Dr C J M MacLachlan			

School of Geography & Geosciences

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

M.Geol. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years form an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least 210 credits are at 3000 and 4000 levels.

Exchange schemes: 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.

Earth Sciences - Single Honours M.Geol.

First Year:	40 credits: ES1001 and ES1002
Second Year:	90 credits: ES2001 and ES2002 and ES2003 - with passes at grade 11 or better in all. <i>Exemption from ES2003 may be considered on a case-by-case basis.</i>
Third Year:	120 credits: ES3001 and ES3002 and ES3003 and ES3004 and ES3005 and ES3006 and ES3007 and ES3009 with an overall credit-weighted mean grade 13.5 or above.
Fourth Year:	45 credits: ES3008 and ES4001 and ES4002; 30 credits: ES4011 or ES4012; 45 further credits in three of: ES4011, ES4012, ID4001, ES4006, ES4007, ES4009, ES5006 – ES5008.
Fifth Year:	120 credits: ES5001 and ES5003 and ES5004 and ES5009.

Students who have passed Third Year of the BSc Environmental Geoscience programme with an overall credit-weighted mean grade of 13.5 or above may, with the permission of the Director of Teaching, opt into Fourth Year of the M.Geol. programme.

Earth Sciences - Single Honours M.Geol.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	120 credits: ES2001 and ES2002 and ES2003 and ES2004 - with passes at grade 11 or better in all.
Third Year:	120 credits: ES3001 and ES3002 and ES3003 and ES3004 and ES3005 and ES3006 and ES3007 and ES3009, with an overall credit-weighted mean grade 13.5 or above.
Fourth Year:	45 credits: ES3008 and ES4001 and ES4002; 30 credits: ES4011 or ES4012; 45 further credits in three of: ES4011, ES4012, ID4001, ES4006, ES4007, ES4009, ES5006 – ES5008.
Fifth Year:	120 credits: ES5001 and ES5003 and ES5004 and ES5009.

Environmental Geoscience - Single Honours B.Sc.

Geography & Geosciences - Honours Level 2012/13 - August 2012

First Year:	40 credits: ES1001 and ES1002
Second Year:	90 credits: ES2001 and ES2002 and ES2003 - with passes at grade 11 or better in all. <i>Exemption from ES2003 may be considered on a case-by-case basis.</i>
Third Year:	105 credits: ES3001 and ES3002 and ES3003 and ES3004 and ES3005 and ES3008 and ES3010; At least 15 credits: ES3009, or by arrangement GG3260 - GG3289.
Fourth Year:	90 credits: ES4002 and ES4003 and ES4004 and ES4008; 15 credits: ES3009 or ES4006 or ES4007 or ES4009 or ID4001 At least 15 further credits: ES3009, ES4006, ES4007, ES4009, ID4001, or by arrangement GG3260 - GG3289.

Environmental Geoscience and Environmental Biology - Joint Honours B.Sc.

Third Year:	80 credits: BL3000 and BL3220 and ES3001 and ES3004 and ES3008 and ES3005 40 credits in two of: BL3307, BL3308, BL3309, BL3316, BL3318, BL3319.
Fourth Year:	75 credits: BL4220 and ES4002 and ID4442. 15 credits: ES3007 or ES3009 or ES4007 or ID4001. 30 further credits in two of: BL4249, BL4254 - BL4256, BL4260, BL4262, BL4266, BL4268, BL4270, BL4272, BL4275, BL4280, BL4286, BL4301, ID4001.

Geography - Single Honours B.Sc. or M.A.

First Year:	20 credits: GG1001 or GG1002.
Second Year:	60 credits: GG2011 and GG2012 - with passes at grade 11 or better in both. <i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i>
Third Year:	60 credits: GG3201; 60 credits in three of: GG3220 - GG3289.
Fourth Year:	50 credits: GG4298; 50 credits: GG4201 - GG4229; Between 20 and 25 further credits: GG3220-GG3289, ((ID4001 or ID4002) with GG3302).

Geography & Geosciences - Honours Level 2012/13 - August 2012

Geography - Joint Honours B.Sc. or M.A.	
<p>(B.Sc. Honours)</p> <p>Geography and one of: Environmental Biology, Management^T, Management Science, Mathematics, Statistics</p>	<p>(M.A. Honours)</p> <p>Geography and one of: Art History, Classical Studies, Comparative Literature, Economics, Film Studies, French^W, Hebrew, International Relations, Italian^W, Management^T, Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Scottish History, Social Anthropology, Spanish^W, Theological Studies</p>
<p>^T Second level Lecture/Lab Timetable clash means students choose non-clashing lab hours in Geography</p> <p>^W Available also as 'With Integrated Year Abroad' degree</p>	
<p>Geography element of Joint Honours B.Sc. or M.A.:</p> <p>First Year: 20 credits: GG1001 or GG1002.</p> <p>Second Year: 60 credits: GG2011 and GG2012 - with passes at grade 11 or better in both.</p> <p style="padding-left: 20px;"><i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i></p> <p>Third Year: 30 credits: GG3202;</p> <p style="padding-left: 20px;">Up to 60 credits: GG3220 - GG3289, GG3301.</p> <p>Fourth Year: 30 credits: GG4297;</p> <p style="padding-left: 20px;">Further credits: GG3220 - GG3289, GG3302, GG4220 - GG4229, GG4301, (ID4001 or ID4002) - to a total of between 90 and 150 credits in Geography across Third and Fourth Years. In total, 240 credits are required at 3000 and 4000 level, including at least 90 credits in total at 4000 level.</p>	

Geography 'with'... - Honours M.A.
<p>Geography with Social Anthropology or Spanish^W</p> <p>^W Available also as 'With Integrated Year Abroad' degree</p>
<p>Geography Major element of M.A. Honours 'with' degree:</p> <p>First Year: 20 credits: GG1001 or GG1002.</p> <p>Second Year: 60 credits: GG2011 and GG2012 - with passes at grade 11 or better in both.</p> <p style="padding-left: 20px;"><i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i></p> <p>Third Year: At least 30 credits: GG3202 - GG3203;</p> <p style="padding-left: 20px;">Further credits: GG3220 - GG3289, GG3301 - to a total of between 80 and 100 credits in Geography for the Year.</p> <p>Fourth Year: 50 credits: GG4298;</p> <p style="padding-left: 20px;">20 credits in one of: GG4220 - GG4229;</p> <p style="padding-left: 20px;">Further credits: GG3221 - GG3289, GG3302, GG4201, GG4220 - GG4229, GG4301, (ID4001 or ID4002), to a total of 180 credits in Geography across Third and Fourth Years.</p> <p>In total, 240 credits are required at 3000 and 4000 level, including at least 90 credits at 4000 level.</p>

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... 'with' Geography - Honours B.Sc. or M.A.	
(B.Sc. Honours) Mathematics with Geography	(M.A. Honours) Psychology, Russian^W, Social Anthropology or Spanish^W with Geography
^W Available also as 'With Integrated Year Abroad' degree	
<p>Geography Minor element of B.Sc. or M.A. Honours 'with' degree:</p> <p>First Year: 20 credits: GG1001 or GG1002.</p> <p>Second Year: 60 credits: GG2011 and GG2012 - with passes at grade 11 or better in both. <i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i></p> <p>Third and Fourth Years: 60 credits in three of: GG3221 - GG3289, GG4220 - GG4229.</p> <p>In total, 240 credits are required at 3000 and 4000 level, including at least 90 credits at 4000 level.</p>	

Geology - Single Honours B.Sc.	
First Year:	40 credits: ES1001 and ES1002
Second Year:	90 credits: ES2001 and ES2002 and ES2003 - with passes at 11 or better in all. <i>Exemption from ES2003 may be considered on a case-by-case basis.</i>
Third Year:	120 credits: ES3001 and ES3002 and ES3003 and ES3004 and ES3005 and ES3006 and ES3007 and ES3009
Fourth Year:	90 credits: ES4001 and ES4002 and ES4003 and ES4004; 30 credits in two of: ES4006, ES4007, ES4009, ES3008, ID4001.

Geology - Single Honours B.Sc. Direct entry to second year for approved candidates with 120 advanced standing credits	
Second Year:	120 credits: ES2001 and ES2002 and ES2003 and ES2004 - with passes at grade 11 or better in all.
Third Year:	120 credits: ES3001 and ES3002 and ES3003 and ES3004 and ES3005 and ES3006 and ES3007 and ES3009
Fourth Year:	90 credits: ES4001 and ES4002 and ES4003 and ES4004; 30 credits in two of: ES4006, ES4007, ES4009, ES3008, ID4001.

Geology - Joint Honours B.Sc.	
Geology and either Biology or Chemistry	
Geology and Biology - Joint Honours B.Sc.	
First Year:	80 credits: BL1101 and BL1102 and ES1001 and ES1002
Second Year:	120 credits: BL2102 and BL2105 and ES2001 and ES2002 - with passes at 11 or better in all. (Including participation on the 2 nd year Earth Sciences field course).
Third Year:	80 credits: BL3000 and BL3220 and ES3001 and ES3004 and ES3008 and ES3005 40 credits in two of: BL3307, BL3308, BL3316 BL3009, BL3318, BL3319.
Fourth Year:	75 credits: BL4220 and ES4002 and ID4442. 15 credits: ES3007 or ES3009 or ES4007 or ID4001. 30 further credits in two of: BL4249, BL4254 - BL4256, BL4260, BL4262, BL4266, BL4268, BL4270, BL4272, BL4275, BL4280, BL4286, BL4301, ID4001.
Geology and Chemistry - Joint Honours B.Sc.	
First Year:	100 credits: CH1401 and CH1402 and CH1601 and ES1001 and ES1002.
Second Year:	90 credits: CH2501 and ES2001 and ES2002 - with passes at grade 11 or better in all. 30 credits: CH2601 or CH2701.
Third Year:	120 credits: CH3431 and CH3514 and CH3521 and CH3712 and CH3717 and CH3721 and ES3001 and ES3004 and ES3006 and ES3009.
Fourth Year:	30 credits in three of: CH4514, CH4614, CH4714, CH4712, CH5711, CH5717; 50 credits: (ES4010 with CH4448) or ID4441; 10 credits: CH5518; 30 credits in two of: ES3008, ES4006, ES4007, ES4009, ID4001.
In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.	
This course is accredited by the Royal Society of Chemistry (RSC) for professional membership.	

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

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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.

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Earth Sciences (ES) Modules

ES3001 Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
This module provides hands-on experience in independently constructing and interpreting geological maps and cross sections. It develops the student's abilities to recognise structures first in two dimensions, then in three dimensions and, by inferring how these structures have changed with time, to develop four-dimensional visualisation skills. The module provides training in defining geological sampling strategies and field report writing.				
Programme module type:	Compulsory for Chemistry and Geology, Earth Sciences (M.Geol.), Geology, Environmental Geoscience			
Required for:	ES3006, ES3010			
Learning and teaching methods and delivery:	Weekly contact: 1 hour of practicals or lectures each week and occasional 2-hour fieldwork tutorials.			
	Scheduled learning: 19 hours		Guided independent study: 131 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A R Prave			
Lecturer(s)/Tutor(s):	Dr A R Prave			

ES3002 Analytical and Statistical Methods in Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Mon (analytical methods), 2.00 pm - 4.00 pm Thu (stats).			
This module covers the principles behind, and practical application of, analytical science and data handling in Earth Sciences. Three key analytical methods are presented and students operate instruments under technical supervision. Statistical training includes (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. Each student will have an opportunity to research an unusual analytical method, relevant to their own interests. Skills taught here reinforce Earth Sciences honours teaching, particularly the independent research project module.				
Programme module type:	Compulsory for Earth Sciences (M.Geol.), Geology, Environmental Geoscience			
Required for:	ES3003, ES3008			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practicals, tutorials, lab time and a mini-conference.			
	Scheduled learning: 51 hours		Guided independent study: 99 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A A Finch			
Lecturer(s)/Tutor(s):	Dr A A Finch, Dr R J S Wilson			

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ES3003 GIS and Spatial Analysis for Earth Scientists				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session).			
This module covers the principles behind, and practical application of, spatial analysis in Earth Sciences. This includes primary and secondary datasets, database design and management, and a variety of spatial analytical methods. The module also provides an introduction to programming and modeling within a GIS environment. Each student will have an opportunity to design and conduct a final project using their choice of available datasets, preferably tailored towards their Senior Honours dissertation proposal topic.				
Programme module type:	Compulsory for Earth Sciences (M.Geol.), Geology, Environmental Geoscience			
Pre-requisite(s):	Normally ES3002			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, practicals.			
	Scheduled learning: 48 hours		Guided independent study: 102 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A J Robinson			
Lecturer(s)/Tutor(s):	Dr R A J Robinson			

ES3004 Sedimentology and Stratigraphy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am – 1.00 pm Mon and Wed (lectures), 2.00 – 5.00 pm Fri (practicals). 3 field days (9.00 am – 5.00 pm).			
This core module provides fundamental knowledge and training in describing, studying and interpreting sedimentary rocks and stratigraphic frameworks. The concepts and methodologies of process sedimentology, sequence, bio- and litho-stratigraphy and sedimentary petrography will be taught, and training undertaken using fieldwork and practicals. The module serves as preparation for subsequent modules on related topics and for field-based modules, including Advanced Geological Mapping, the Research dissertation, and the Alps field course.				
Programme module type:	Compulsory for Chemistry and Geology, Geology, Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, practicals and field training			
	Scheduled learning: 54 hours		Guided independent study: 96 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination= 50%			
Module Co-ordinator:	Dr A R Prave			
Lecturer(s)/Tutor(s):	Dr A R Prave, Dr R A J Robinson, Mr S G Allison			

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ES3005 Field Remote Sensing Methods in Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>This module covers the principles behind, and practical application of, field remote sensing methods in Earth Sciences. Key methods are presented, namely: survey techniques, high resolution geophysics, drift mapping, and soil analysis. Students will develop skills in deployment of field equipment, will operate appropriate field equipment under technical supervision, and then complete mini-projects based on an industry-format for problem solving using group activities. Skills taught here reinforce Earth Sciences Honours teaching, particularly the independent dissertation research project for Geology and Environmental Geoscience students.</p>				
Programme module type:	Compulsory for Earth Sciences (M.Geol.), Geology, Environmental Geoscience			
Anti-requisite(s):	GE3005	Required for:	ES3008	
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, practicals, demonstrations and tutorials			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C R Bates			
Lecturer(s)/Tutor(s):	Dr C R Bates			

ES3006 Advanced Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	TWO
Planned timetable:	9.00 am - 5.00 pm Fri (map practicals).			
<p>Geological maps are not just summaries of rocks - they are ways of conveying three-dimensional structure and geological history. This module starts with lab-based analysis of classic geology maps, followed by two one-week field courses. Field assessment comprises field notes and geological maps within holistic, problem-based exercises, determining the geology of these areas from first principles. At the end of the module, students will not only have learned how to record, interpret and present field data, but also to visualise geology in four dimensions. This module is one of the most important for developing confidence in field techniques prior to independent research projects.</p>				
Programme module type:	Compulsory for Chemistry and Geology, Earth Sciences (M.Geol.), Geology			
Pre-requisite(s):	ES3001	Required for:	ES4001	
Learning and teaching methods and delivery:	Weekly contact: Weekly practicals and fieldwork.			
	Scheduled learning: 83 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A A Finch			
Lecturer(s)/Tutor(s):	Dr A A Finch, Dr C H Donaldson, Dr A R Prave			

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ES3007 Structural Geology and Tectonics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Tue and Thu (lectures), 2.00 – 5.00 pm (practicals)			
This module covers the principles of rock deformation and associated metamorphism, and the tectonic processes that drive this deformation. The goals of this course are: a) the development of skills in the structural analysis of rock bodies to gain an understanding of the geometries, sequencing, and kinematics of deformational features; b) understanding of tectonic principles and controls on rock deformation and mountain building.				
Programme module type:	Compulsory for Earth Sciences (M.Geol.), Geology			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, practicals and fieldwork.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof P A Cawood			
Lecturer(s)/Tutor(s):	Prof P A Cawood			

ES3008 Environmental Geoscience				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	12.00 noon Tue and Thu (lectures), 2.00 - 5.00 on Thu (practicals).			
The module focuses on building a comprehensive understanding of the Earth surface system, examining mineral-solution equilibria, the global carbon cycle, chemical weathering and soil genesis, controls on riverine and marine chemistry, and the role of microorganisms in cycling matter through the Earth's surface. These concepts are widely applicable to many problems across the Earth and environmental sciences, but are specifically used in this module to solve problems facing modern environmental geoscientists such as acid mine drainage, riverine / groundwater pollution and remediation, waste disposal, global climate change, and carbon sequestration. Case studies based on published data are used extensively.				
Programme module type:	Compulsory for Environmental Geoscience, Earth Sciences (M.Geol.) Optional for Chemistry and Geology, Geology			
Pre-requisite(s):	Normally ES3002, ES3005			
Learning and teaching methods and delivery:	Weekly contact: 17 lectures, 15 hours of laboratory classes, 2 or more field classes over the semester.			
	Scheduled learning: 54 hours		Guided independent study: 96 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr N J Tosca			
Lecturer(s)/Tutor(s):	Dr N J Tosca, Dr E T Tipper			

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ES3009 Igneous and Metamorphic Petrology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	2.00 pm - 5.00 pm Mon (practicals), 10.00 am Tue and Thu (lectures).			
This is a core module in Geology delivered early in the honours programme providing a framework for interpreting major petrological processes acting within the Earth's crust and mantle. The module serves as preparation for subsequent modules on related topics and for field-based modules, including Advanced Geological Mapping, the Research dissertation, and the Alps field course.				
Programme module type:	Compulsory for Chemistry and Geology, Earth Sciences (M.Geol.), Geology Optional for Environmental Geoscience			
Required for:	ES4006			
Learning and teaching methods and delivery:	Weekly contact: Lectures and practicals.			
	Scheduled learning: 38 hours		Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 50%, Coursework = 0%			
	As used by St Andrews: Practical Examination = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C H Donaldson			
Lecturer(s)/Tutor(s):	Dr C H Donaldson, Dr E T Tipper, Dr A A Finch			

ES3010 Advanced Environmental Field Methods				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This forms the introduction to methodologies and training in applied environmental problems. A specific environmental problem will be identified, and researched in detail before a one-week field excursion (see below) where an environmental impact problem will be addressed in the field including mapping geology, drift, surface and sub-surface hydrology and environmental impact.				
Programme module type:	Compulsory for Environmental Geoscience			
Pre-requisite(s):	ES3001	Required for:	ES4008	
Learning and teaching methods and delivery:	Weekly contact: Fortnightly seminar and 2 x 1-week field excursion/courses.			
	Scheduled learning: 53 hours		Guided independent study: 97 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E T Tipper			
Lecturer(s)/Tutor(s):	Dr E T Tipper			

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ES3099 Field Methods in Geosciences				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Availability restrictions:	Available to visiting students only.			
Planned timetable:	none - field-based module.			
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 plutonic and volcanic centres.				
Programme module type:	Available to visiting students only.			
Pre-requisite(s):	Must be studying Earth Science at an overseas university			
Learning and teaching methods and delivery:	Weekly contact: Occasional lectures, tutorials and practicals in addition to fieldwork.			
	Scheduled learning: 268 hours		Guided independent study: 32 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R A J Robinson			
Lecturer(s)/Tutor(s):	Team taught			

ES4001 Field Excursion and Map Interpretation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	12 days fieldwork in August – September. 9.00 am – 5.00 pm Friday (practicals)			
Building on the field training of JH, this module develops the field observation and interpretation skills of collecting, recording, interpreting and synthesising data in the field and from geological maps and cross-sections. 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. Fieldwork will be combined with the interpretation of a region as represented on a geological map. Students will also be trained in the techniques of interpreting remotely sensed images of the Earth's surface by aerial photography and satellite imagery and constructing cross-sections.				
Programme module type:	Compulsory for Geology, Earth Sciences (M.Geol.)			
Pre-requisite(s):	normally ES3006			
Learning and teaching methods and delivery:	Weekly contact: 2-week field course and 4 lab sessions.			
	Scheduled learning: 84 hours		Guided independent study: 66 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A R Prave			
Lecturer(s)/Tutor(s):	Dr A R Prave, Dr E T Tipper, Mr S G Allison			

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ES4002 Research Review, Essay and Seminar				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	Not applicable.			
<p>The student proposes an Earth Science topic, one that has not been directly covered in a module. They discuss the suitability of the topic with a lecturer who agrees to become adviser to the student. Student and adviser are required to meet 2 further times during the module. Literature and web-based research is conducted and the student writes a critical review of ca. 3,500 words. The same material is also presented in a 15 minute seminar to staff and classmates. Advice on critical writing and presenting talks is given a year before the start of the module, on entry to Junior Honours, for use throughout the Honours programme. The seminar is assessed by both lecturers and peers. The module is normally carried out in Semester 1 but a Semester 2 Research Review may be considered for M.Geol. students on a case by case basis.</p>				
Programme module type:	Compulsory for Geology, Environmental Geoscience, Earth Sciences (M.Geol.)			
Pre-requisite(s):	(ES2001 and ES2002) or (GS2011 and GS2012), and admission to an Honours Earth Sciences programme or Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per week and 3 meetings with adviser.			
	Scheduled learning: 4 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 85% Practical Examination = 15%			
Module Co-ordinator:	Dr C H Donaldson			
Lecturer(s)/Tutor(s):	Team taught			

ES4003 Research Dissertation				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Planned timetable:	Not applicable.			
<p>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). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Geology, Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: none			
	Scheduled learning: 20 hours		Guided independent study: 430 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Proposal = 5%, Oral presentation = 10%, Dissertation = 85%			
Module Co-ordinator:	Dr T D Raub			
Lecturer(s)/Tutor(s):	Team taught			

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ES4004 Integrated Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Planned timetable:	10.00 am Mon and Wed (lectures). 9.00 – 12.00 noon Tue (practicals).			
<p>This module requires students to think of themselves as practitioners of a single integrated subject and thereby to bring together the various themes they have explored in the modules of the degree. It is also to promote independent, critical thinking across the subject. It is assessed by reports of talk/key topics and a single 4 hour exam, in which they are given many different forms of geological data (numerical, thin section, hand specimen, maps etc.) and asked to solve a complex geological problem. The module also acts as a platform through which we deliver employment skills and involves a mock job interview.</p>				
Programme module type:	Compulsory for Geology, Environmental Geoscience			
Pre-requisite(s):	Completion of Level 3 Geology			
Learning and teaching methods and delivery:	Weekly contact: Attendance at Department research seminars and visiting lectures compulsory. Tutorials, feedback sessions and mock job application to be arranged.			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, 4-hour Practical Examination = 70%			
Module Co-ordinator:	Dr R A J Robinson			
Lecturer(s)/Tutor(s):	Team taught			

ES4006 Advanced Igneous Petrogenesis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	10.00 am Mon and Wed (lectures). 9.00 – 12.00 noon Tue (practicals)			
<p>The Earth's crust is largely created by acid and basic magmatism and many of the planet's critical resources are formed from igneous processes. The module explores the nature of that magmatism, the petrography and geochemistry of the minerals and 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. The economic significance of alkaline rocks as the hosts for many of the world's critical metals is considered.</p>				
Programme module type:	Optional for Chemistry and Geology, Geology, Environmental Geoscience, Earth Sciences (M.Geol.)			
Pre-requisite(s):	Normally ES3009			
Learning and teaching methods and delivery:	Weekly contact: 18 lectures, 15 hours of laboratory work, 18 hours of field-related study over the semester.			
	Scheduled learning: 50 hours		Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 50%, Coursework = 0%			
	As used by St Andrews: Practical Examination = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C H Donaldson			
Lecturer(s)/Tutor(s):	Dr C H Donaldson, Dr A A Finch			

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ES4007 Petroleum Exploration and Geophysics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	11.00 am – 1.00 pm Thu (lectures), 2.00 -5.00 pm Thu (practicals).		
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.			
Programme module type:	Optional for Chemistry and Geology, Geology, Environmental Geoscience, Earth Sciences (M.Geol.)		
Learning and teaching methods and delivery:	Weekly contact: 17 lectures, 15 hours laboratory classes, field classes over the semester.		
	Scheduled learning: 38 hours	Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr C R Bates		
Lecturer(s)/Tutor(s):	Dr C R Bates, Dr A R Prave		

ES4008 Environmental Excursion and Maps			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	To be arranged.		
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.			
Programme module type:	Compulsory for Environmental Geoscience		
Pre-requisite(s):	ES3010		
Learning and teaching methods and delivery:	Weekly contact: Lectures and practical classes		
	Scheduled learning: 36 hours	Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr R A J Robinson		
Lecturer(s)/Tutor(s):	Team taught		

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ES4009 Geodynamics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Chemistry and Geology, Geology, Environmental Geoscience, Earth Sciences (M.Geol.)			
Pre-requisite(s):	Admission to Honours in an Earth Science Honours programme			
Learning and teaching methods and delivery:	Weekly contact: 12 lectures, 1 laboratory class, 2 days in the field.			
	Scheduled learning: 52 hours		Guided independent study: 98 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			

ES4010 Joint Honours Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Planned timetable:	Not applicable.			
An individual research project allows the student to pursue in depth a topic of personal interest. The student works largely independently and has the opportunity to demonstrate individuality, initiative and enterprise. Projects will normally include an aspect of field and analytical science. Skills of planning and executing research are learned, as well as the ability to work independently, and present the results orally and in dissertation form (up to 7,000 words).(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology			
Pre-requisite(s):	Admission to Joint Honours Geology			
Learning and teaching methods and delivery:	Weekly contact: none			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Proposal = 5%, Oral Presentation = 10%, Dissertation = 85%			
Module Co-ordinator:	Dr T A Raub			
Lecturer(s)/Tutor(s):	Team taught			

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ES4011 Work Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
<p>Practical experience of Earth Sciences is important to graduate job prospects and for students to understand the practical relevance of taught material course. This module is a platform for the students to obtain experience of the workplace through an 8-week industrial placement. The student finds their own work placement, some with the assistance of staff connections in industry and alumni. Work placements can be of a variety of forms, varying from office or lab-based work to engineering geology at sites in the UK to exploration geology across the world. The performance of the student in the workplace is assessed using similar criteria to those used when applying for Chartered (CGeol) status. The student reports on their activities during placement at the end of the placement period.</p>				
Programme module type:	ES4011 or ES4012 is compulsory for Earth Sciences (M.Geol.)			
Learning and teaching methods and delivery:	Weekly contact: Meetings.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A A Finch			
Lecturer(s)/Tutor(s):	Geology Staff			

ES4012 Research Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
<p>Practical experience of Earth Sciences is important to graduate job prospects and for students to understand the practical relevance of taught material in the course. The present module is a platform for the students to obtain experience of the working in an academic research team through a research placement. The student finds their own placement by negotiating with staff. The performance of the student in the workplace is assessed using similar criteria to those used when applying for Chartered (CGeol) status. The student reports on their activities during placement at the end of the placement period.</p>				
Programme module type:	ES4011 or ES4012 is compulsory for Earth Sciences (M.Geol.)			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Meetings.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr N Tosca			
Lecturer(s)/Tutor(s):	Earth Sciences Staff			

Geography (GG) Modules

GG3201 Method, Field, Data: Researching Geographies in Practice				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
This module occupies a central place in our field-based research-orientated degree. It prepares students to undertake their independent research dissertation and develops transferable professional skills useful beyond graduation. Students will learn about research design and the collection of original empirical geographic data through engagement with a series of problem-based geographical issues. Themes covered include: the history and philosophy of geography; ethics of research; statistics for geographers; cartography; GIS (Geographical Information Systems); and quantitative, qualitative, and physical research methods. There is opportunity for streaming and choice amongst units covering these themes. Skills and techniques learned are applied during a residential field course where students will design and execute an original empirical research project with a staff mentor. The module concludes with students producing an independent research proposal for their Senior Honours dissertation projects.				
Programme module type:	Compulsory for Single Honours Geography			
Anti-requisite(s):	GG3202, GG3203			
Required for:	GG4201, GG4221, GG4222, GG4223, GG4224, GG4225, GG4298, GG4301			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practicals.			
	Scheduled learning: 150 hours		Guided independent study: 450 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D S Houston			
Lecturer(s)/Tutor(s):	Team taught			

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GG3202 Method, Field, Data: Research Training for Joint Honours in Geography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module occupies a central place in our field-based research-orientated degree. It prepares students to undertake their independent Joint Honours research dissertation and develops transferable professional skills useful beyond graduation. Students will learn about research design and the collection of original empirical geographic data through engagement with a series of problem-based geographical issues. Themes covered include: the history and philosophy of geography; ethics of research; statistics for geographers; cartography; GIS; and quantitative, qualitative and physical research methods. There is opportunity for streaming and choice amongst units covering these themes, and Joint Honours students will need to make an informed choice with the help of their advisor, to select from the units shared with the larger 60-credit GG3201. The module concludes with students producing an independent research proposal for their Senior Honours dissertation research.</p>				
Programme module type:	Compulsory for Joint Honours Geography			
Anti-requisite(s):	GG3201, GG3203			
Required for:	GG4221, GG4222, GG4223, GG4224, GG4225, GG4297, GG4301			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practicals.			
	Scheduled learning: 75 hours		Guided independent study: 225 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D S Houston			
Lecturer(s)/Tutor(s):	Team taught			

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GG3203 Method, Field, Data: Research Training for Major Honours in Geography				
SCOTCAT Credits:	50	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module occupies a central place in our field-based research-orientated degree. It prepares students to undertake their independent 50-credit research dissertation (GG4298) and develops transferable professional skills useful beyond graduation. Students will learn about research design and the collection of original empirical geographic data through engagement with a series of problem-based geographical issues. Themes covered include: the history and philosophy of geography; ethics of research; statistics for geographers; cartography; GIS; and quantitative, qualitative and physical research methods. Students are also required to attend an overseas field course. There is opportunity for streaming and choice amongst units covering these themes, and Major Honours students will need to make an informed choice, with the help of their advisor, to select from the units shared with the larger 60-credit GG3201. The module concludes with students producing an independent research proposal for their Senior Honours dissertation research.</p>				
Programme module type:	Compulsory for Geography with Social Anthropology, Geography with Spanish			
Anti-requisite(s):	GG3201, GG3202			
Required for:	GG4221, GG4222, GG4223, GG4224, GG4225, GG4298, GG4301			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practicals.			
	Scheduled learning: 125 hours		Guided independent study: 375 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D S Houston			
Lecturer(s)/Tutor(s):	Team taught			

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GG3221 Geographies of Identity and Power				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
Drawing on theories of gender and sexuality, this module charts how political questions about identity and power have become central to a broad range of contemporary issues. This module introduces key concepts in the theorisation of gender and sexuality, contextualises their development in the social sciences more generally, and applies them to a range of contemporary geographic issues including: power, segregation, inequality, representation and the political.				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr M B Sothern			
Lecturer(s)/Tutor(s):	Dr M B Sothern			

GG3222 Environments and Human Behaviour				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module will explore the relationship between behaviour 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 disasters situations. It will also consider the nature of attractive land and city-scapes. It will tackle issues such as crime reduction through design and ask whether enforced safety behaviour actually reduces accidents and deaths.				
Programme module type:	Optional for all degrees involving Geography			
Anti-requisite(s):	GE3075			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr C J L Dibben			
Lecturer(s)/Tutor(s):	Dr C J L Dibben			

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GG3223 Population in Developing Countries				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
80 percent of the world's population live in developing countries; this module is about them. Where do they live? How long do they live? How many children do they have? How many are old? The module also examines how these demographic factors interact with wider issues of economic development, social change and environmental impact.				
Programme module type:	Optional for all degrees involving Geography			
Anti-requisite(s):	GG3074			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination= 60%			
Module Co-ordinator:	Dr C C B Wilson			
Lecturer(s)/Tutor(s):	Dr C C B Wilson			

GG3224 HIV/AIDS in sub-Saharan Africa				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module makes the case for a social-scientific, not merely biomedical understanding of HIV/AIDS in sub-Saharan Africa. It addresses the geographies of this phenomenon, exploring the politics of scaling, uneven global distributions, social contexts that facilitate its spread and the situatedness of sexual decision-making. The module investigates the role of gender relations, poverty, migration and youth. It also explores the everyday geographies of those living with AIDS, and evaluates proposed local and global solutions. The module is reading- and seminar-based. It utilises action-based assessment that challenges students to take their learning out of the classroom and transmit it to other contexts.				
Programme module type:	Optional for all degrees involving Geography			
Anti-requisite(s):	GE4072			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and/or tutorials.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examination = 25%, Practical Examination = 25%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Practical Examination = 25%, Written Examination= 25%			
Module Co-ordinator:	Dr M G Kesby			
Lecturer(s)/Tutor(s):	Dr M G Kesby			

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GG3225 Managing Modern Cities: Strategies for Competitiveness, Sustainability and Social Justice				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Almost nine out of ten Scots live in cities, suburbs or small towns. Britain as a whole has long been one of the most extensively and densely urbanised countries in the world. Now half the population of the globe lives in cities. This proportion is set to rise to three quarters over the next two to three decades. How can we manage these emerging changes effectively? It is important to understand the economic and demographic changes that drive growth and structural change, and equally important to understand how spatial and other influences shape intra-metropolitan geographies of jobs & unemployment, homes & income segregation, sprawl & over-crowding, environmental quality & decay. Cities are complex recursive systems in which employment, poverty, amenity and sprawl create geographies that impact future competitiveness and environmental sustainability as well as social justice.</p>				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof D MacLennan			
Lecturer(s)/Tutor(s):	Prof D MacLennan			

GG3226 Population Studies: Europe before 1914				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>The module introduces the inter-disciplinary field of population studies through the study of the demography of Western Europe between c.1680 and c.1914. It focuses on the major transformations in mortality and fertility that fundamentally changed the demographic dynamics of European populations. Basic demographic measures and relationships that underpin any study of population are first introduced before moving to a detailed examination of the complex set of relationships which underlay Europe's 'demographic transition'. Practical sessions provide hands-on experience of working with historical population sources. Particular attention is paid to geographies of population change in England and Scotland. The module provides a firm foundation from which to develop an understanding of contemporary population change.</p>				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars and practical classes.			
	Scheduled learning: 20 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof E F Graham			
Lecturer(s)/Tutor(s):	Prof E F Graham			

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GG3227 Colonial and Postcolonial Geographies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module traces the historical geography of modern colonialism from its sixteenth-century beginnings in Spain's discovery and conquest of the New World, through to the break-up of European colonial empires after World War II, and up to what has been called 'the colonial present' and the 'new imperialism' (revolving around the USA and the 'war on terror'). Emphasis will be placed on how colonialism, past and present, operates as a logic of displacement and dispossession, and as both a conceptual space (imaginative geography) and physical space (material geography) of encounter and conflict and resistance involving a wide array of projects of colonisation and resistance.</p>				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 20 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr D W Clayton			
Lecturer(s)/Tutor(s):	Dr D W Clayton			

GG3229 Environmental Management in Scotland				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module explores current environmental management issues in Scotland. It discusses the primary sectors of land & resource management (e.g. forestry, agriculture, wildlife management, freshwater resource management, conservation, renewable energy), and explores how these systems interact. The aim is to leave students with an informed conceptual and empirical 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 shape the future of Scotland's natural heritage within a devolved political framework and in the context of climate change.</p>				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, occasional seminars and a 1-day field excursion.			
	Scheduled learning: 28 hours		Guided independent study: 172 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, Practical Examination = 20%, Written Examination = 60%			
Module Co-ordinator:	Dr C R Warren			
Lecturer(s)/Tutor(s):	Dr C R Warren			

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GG3231 The Economic Geography of Homes and Neighbourhoods				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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 to how housing and neighbourhood 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.				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof D MacLennan			
Lecturer(s)/Tutor(s):	Prof D MacLennan			

GG3232 Housing, Community and Social-Spatial Justice				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This interdisciplinary module brings a Housing Studies perspective to the study of Urban Social Geography. Social geography is a sub-discipline that is interested in social relations and social difference. It has an analytical focus on the forms of power that lead to social and spatial inequality. Through engaging with contemporary policy and political debates about poverty and place, urban marginality and social-spatial (in)justice, this module emphasises the way in which geographical knowledge can be usefully applied to contemporary urban social 'problems'. In doing so, it also highlights how communities themselves have been active in leading place-based solutions to build better places.				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and seminars.			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr K McKee			
Lecturer(s)/Tutor(s):	Dr K McKee			

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GG3233 Transport and Sustainability				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module provides an outline of the important roles that transport plays in facilitating economic development and globalisation, while identifying crucial constraints and vulnerabilities associated with complex transport networks and supply chains. Key environmental impacts associated with transport are highlighted, together with potential solutions, in the context of wider debates surrounding sustainability. The rationale for state intervention in transport provision is outlined, and models of private and public ownership and market regulation are critically examined, employing examples from air, bus and rail transport. Transport policy and planning in the UK is critically examined, and illustrated using case studies. The multi-disciplinary nature of transport studies is examined, with some reflections on the role of Transport Geography in particular.</p>				
Programme module type:	Optional for all degrees involving Geography			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and seminars.			
	Scheduled learning: 64 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr D S Houston			
Lecturer(s)/Tutor(s):	Dr D S Houston			

GG3234 Migration and Transnationalism				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module is designed to advance students' appreciation of the chief academic arguments associated with migration and transnationalism. Geographical analysis of the changing role of labour migration in the world economy offers a distinctive perspective on this spatially, socially and economically selective process. Other new mobilities, such as the very significant increase in international student mobility, illustrate the complex ways in which globalisation interfaces with the efforts of individuals, families and communities to add to their social and cultural capital. Although dominantly concerned with international mobility, other scales of analysis will also be considered (e.g. the body). Finally, the course briefly covers issues associated with immigration, refugee and asylum policies.</p>				
Programme module type:	Optional for all degrees involving Geography and Sustainable Development			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars and occasional tutorials.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof A M Findlay			
Lecturer(s)/Tutor(s):	Prof A M Findlay			

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GG3260 Periglacial Geomorphology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Planned timetable:	To be arranged.		
<p>Periglacial geomorphology is the study of the landforms of cold, non-glacial environments, the processes responsible for creating and modifying such landforms, and the environmental implications of periglacial landforms and deposits. This module focuses on frozen ground, permafrost and frost-action process, landforms and processes associated with cold mountain environments (blockfields, talus, debris flows, avalanches and rock glaciers), periglacial mass-movement (solifluction and active-layer sliding), permafrost hydrology and the geomorphic role of arctic rivers, and the origin of patterned ground. Additionally, students are required to research the origins of particular periglacial phenomena and present their findings in the form of peer-assessed group presentations.</p>			
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience		
Anti-requisite(s):	GG3036		
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and seminars, a practical and a residential field course.		
	Scheduled learning: 27 hours	Guided independent study: 173 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 24%, Coursework = 16%		
	As used by St Andrews: Coursework = 16%, Practical Examination = 24%, Written Examination = 60%		
Module Co-ordinator:	Prof C K Ballantyne		
Lecturer(s)/Tutor(s):	Prof C K Ballantyne		

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GG3261 Quaternary Geomorphology of Scotland				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module provides an introduction to current understanding of the evolution of the Scottish landscape during the Quaternary Era, with a particular focus on glacial, periglacial and paraglacial processes and their effects during the last 30,000 years. Introductory lectures on the structure of Scotland, Neogene landscape evolution and Quaternary dating techniques are followed by an in-depth reconstruction of the dimensions and chronology of the last ice sheet, the status of associated ice-sheet readvances, glaciation, periglaciation during the Loch Lomond Stade of 12.9-11.7 ka, Holocene landscape evolution, and Lateglacial and Holocene sea-level change. Students are required to prepare an essay on the glacial history of particular regions in the Scottish Highlands.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Anti-requisite(s):	GG3041, GG3042			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and seminars and a residential field course.			
	Scheduled learning: 29 hours		Guided independent study: 171 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Practical Examination = 10%, Written Examination = 60%			
Module Co-ordinator:	Prof C K Ballantyne			
Lecturer(s)/Tutor(s):	Prof C K Ballantyne			

GG3262 Climate and Weather Systems				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Weather affects every aspect of life, and is a fundamental control on many environmental systems. This module explores the workings of the atmosphere at a wide range of scales, from the formation of clouds and raindrops, through thunderstorms and cyclones, up to large-scale circulation of the atmosphere. Beginning from first principles, key physical processes are introduced and used to develop a deep understanding of the earth's weather and climate. The module concludes with a critical examination of the climate change debate.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Anti-requisite(s):	GG3069			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures.			
	Scheduled learning: 21 hours		Guided independent study: 179 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof D I Benn			
Lecturer(s)/Tutor(s):	Prof D I Benn			

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GG3263 Glaciers and Glaciation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>In recent years, concern has risen about the impact of climate change on glaciers and ice sheets, and the implications for sea level rise, natural hazards and water resources. This course critically evaluates these issues, and explores the fundamental glaciological processes required to understand them. The first part of the course focuses on how glaciers function and interact with climate, and covers glacier mass balance (snowfall and ice melt), hydrology, processes of glacier motion and ice dynamics. The second part then applies these principles to important issues, such as glacier lake outburst floods, water resources in glacier-fed river basins, the future of the Antarctic and Greenland Ice Sheets, and sea level change.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars and a residential field course.			
	Scheduled learning: 21 hours		Guided independent study: 179 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof D I Benn			
Lecturer(s)/Tutor(s):	Prof D I Benn			

GG3264 Oceans and Climate				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The oceans play a key role in the global climate system. The aim of this module is to foster an understanding of: (1) changes in ocean circulation and climate, the possible mechanisms for such changes and the wider implications in terms of past, present and future global and regional climates; and (2) to provide an introduction to some of the research methods employed to determine oceanographic changes.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Anti-requisite(s):	GG3067			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr W E N Austin			
Lecturer(s)/Tutor(s):	Dr W E N Austin			

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GG3265 The Science of Climate Change				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The issue of climate change, and in particular the role that human activity may have in such change, is one of the most challenging environmental problems currently facing society. This module will consider the scientific evidence and arguments that underpin our current understanding of climate change. The module will consider such topics as long-term proxy records of natural climate change (ice cores, marine sediments), historical climatic data sets based upon direct observation, how the climate system is modelled, the evidence for human impacts upon our climate system and areas of current uncertainty within our knowledge. While the focus will be upon the scientific issues, the role of policy makers and the media in the broader perception of the climate change issue will also be introduced.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and a conference seminar.			
	Scheduled learning: 20 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr J Walden			
Lecturer(s)/Tutor(s):	Dr J Walden			

GG3266 Rivers and Floodplains				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>Rivers and their floodplains are central to human populations and ecology, but must be carefully understood to maintain their benefits while minimising risks associated with water supply, water quality, and flooding. This module investigates fluvial hydrology and geomorphology in the context of natural physical processes and their interaction with river management. It focuses on quantitative aspects of floods, sediment/contaminant transport, sedimentation, and floodplain evolution in contemporary settings. Students are required and encouraged to do mathematical calculations and engage with the latest scientific literature. The module highlights important case studies from river systems around the globe.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Pre-requisite(s):			Anti-requisite(s):	
Co-requisite(s):			Required for:	
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, a seminar and tutorials.			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%			
	As used by St Andrews: Practical Examinations = 100%			
Module Co-ordinator:	Dr M D Singer			
Lecturer(s)/Tutor(s):	Dr M D Singer			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG3267 Ecosystem Ecology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>Terrestrial ecosystems modulate the flux of energy and materials at the Earth's surface, regulating trace gas exchange with the atmosphere, cycling of carbon and nutrients in soils, exchange of material with rivers and oceans, and the natural attenuation of pollutants. Understanding the structure and function of terrestrial ecosystems is critical for understanding environmental challenges such as global warming, stratospheric ozone loss, sustainable land management, and pollution. This module develops principles of systems ecology and biogeochemistry, exploring the fundamental role played by life in mediating biophysical and biogeochemical processes in the Earth system. This interdisciplinary module will draw on knowledge and techniques from plant physiological ecology, soil science, microbial ecology, and atmospheric chemistry.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and tutorials.			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Written Examination = 40%			
Module Co-ordinator:	Dr Y A Teh			
Lecturer(s)/Tutor(s):	Dr Y A Teh			

GG3268 Reconstructing Global Climate since the Romans				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>The current scientific consensus is that recent global warming is outside the range of natural variability when compared to the last 1000 or even 2000 years. This course addresses how this consensus view has been derived, adopting a critical focus (addressing both strengths and limitations) on the key palaeoclimate proxy sources which are used to reconstruct and understand climate for the last two millennia (e.g. ice cores, tree-rings, corals, speleothems, lake/marine sediments and historical documents). The course ends with a critical assessment of the "myths" often cited by the sceptical community to weaken the consensus view. Do the sceptics have a case? How certain is the science really?</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Anti-requisite(s):	GG4090			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, practicals and a field class.			
	Scheduled learning: 20 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr R J S Wilson			
Lecturer(s)/Tutor(s):	Dr R J S Wilson			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG3269 Geochronology: Dating the Quaternary and Beyond				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>From measuring lichens to isotopic dating techniques we will use a variety of simple and complex tools to understand the time frames of Earth surface processes such as erosion rates, sequences of moraine deposition, and successions of volcanic eruptions. By investigating research questions you will apply several dating techniques during practicals.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Learning and teaching methods and delivery:	Weekly contact: Lectures and practicals.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination= 50%			
Module Co-ordinator:	Dr V Rinterknecht			
Lecturer(s)/Tutor(s):	Dr V Rinterknecht			

GG3270 Understanding and Interpreting Environmental Models				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>Environmental models are becoming increasingly important, influencing our understanding and management of a changing environment. Understanding the strengths and limitations of such models is critical if robust conclusions are to be drawn from model predictions. This module explores the role of computer models in environmental studies, examining how they operate and what they are used for. It provides an overview of key modeling concepts and applications, starting from basic principles before considering larger models such as the General Circulation Models (GCMs) used in climate predictions. Throughout the module, practical sessions supplement lectures to provide first-hand experience with ecosystem models. Note that students taking this module are not expected to be able to programme computers.</p>				
Programme module type:	Optional for Geography or Sustainable Development.			
Learning and teaching methods and delivery:	Weekly contact: Lectures and practicals.			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr T C Hill			
Lecturer(s)/Tutor(s):	Dr T C Hill			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG3301 Special Topic for Joint or Major Honours in Geography (Junior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
This module is designed to allow Joint or Major Honours students in their Junior Honours year to engage with the subject matter of a selected 20-credit optional module in Geography (GG3221 - GG3289) yet balance the workload across the four semesters of their Honours programme. Students complete the contact hours of their chosen module but undertake a separate assessment.				
Programme module type:	Compulsory for Joint Honours Geography Optional for all 'Geography with' degrees			
Pre-requisite(s):	Entry to a Joint or Major Honours programme in Geography.			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 23 hours		Guided independent study: 77 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C C B Wilson			
Lecturer(s)/Tutor(s):	Various			

GG3302 Special Topic for Honours in Geography (Senior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
This module is designed to allow Honours students in their Senior Honours year to engage with the subject matter of a selected 20-credit optional module in Geography (GG3221 - GG3289) yet balance the workload across the four semesters of their Honours programme. Students complete the contact hours of their chosen module but undertake a separate assessment.				
Programme module type:	Optional for Joint Honours Geography, all 'Geography with' degrees and Single Honours students also taking ID4001 or ID4002.			
Pre-requisite(s):	Entry to a Joint or Major Honours programme in Geography, or Single Honours Geography			
Required for:	Single Honours Geography students also taking ID4001 or ID4002			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 23 hours		Guided independent study: 77 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C C B Wilson			
Lecturer(s)/Tutor(s):	Various			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG4201 Advanced Debates in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module extends and provides a summation of work undertaken in the geography Honours programme, providing students with an opportunity to reflect on the scope and diversity of geography as a discipline and to think holistically about their own learning. The module is structured around a set of readings and seminars that encourage student to study and debate important contemporary issues and debates within geography (e.g. climate change, globalisation, the nature of social inequality, the interface between nature and culture). It is examined with a single three-hour examination comprised of a mixture of seen and unseen exam questions. These address the nature of geography as a discipline and the way in which geographical reasoning has or might be applied to significant contemporary issues.</p>				
Programme module type:	Optional for Single Honours Geography and all 'Geography with' degrees			
Pre-requisite(s):	GG3201			
Learning and teaching methods and delivery:	Weekly contact: Introductory lecture and weekly 2-hour seminars.			
	Scheduled learning: 22 hours		Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examination = 100%, Practical Examination = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr D W Clayton			
Lecturer(s)/Tutor(s):	Team taught			

GG4221 Review Essay in Geography				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This elective requires students to identify independently and to review a body of literature within the discipline of Geography, giving an account of its substantive content, but also critically assessing the science on which it is based. Students can either, identify an intellectual field that lies outside those addressed in available 3000-level options modules, or build on a field covered in the programme, pursuing it at greater depth. In addition to supervisory sessions and module tutorials, students may also attend sessions in a relevant 3000-level option module running in the same semester.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	Passes in one of GG3201, GG32,2, GG3203	Anti-requisite(s):	GE4019	
Learning and teaching methods and delivery:	Weekly contact: Introductory lecture and seminar followed by one-to-one supervision.			
	Scheduled learning: 7 hours		Guided independent study: 193 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof C K Ballantyne			
Lecturer(s)/Tutor(s):	Team taught			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG4222 Geographies of Difference: Advanced Qualitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module offers advanced training in methods of qualitative analysis that facilitate dissertation work and develop transferable skills for future careers. Learning will be project/problem-based, and students will gain practical experience of working with a range of qualitative data (e.g. archives, visual and textual documents and interview transcripts) using a range of analytical approaches (e.g. discourse analysis, deconstruction, grounded theory and computer assisted qualitative analysis). Research data will be drawn from a range of areas within human geography (e.g. cultural, historical, political, social, environmental, health and development geography) and will address issues of social, cultural, gender, sexual, and or generational difference. Techniques, themes and materials will alternate in accordance with staff availability.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	Passes in one of GG3201, GG3202, GG3203			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 2 practical classes.			
	Scheduled learning: 20 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K McKee			
Lecturer(s)/Tutor(s):	Team taught			

GG4223 Geographies of Inequality: Advanced Quantitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>Students taking this module will learn some of the core research skills necessary to be a professional quantitative social science researcher and then to carry out a typical consulting project. It will allow them to explore a substantive policy issue, carry out their own quantitative research and then make recommendations based on these findings. They will be presented with a 'real world' scenario and be expected to take on the role of a researcher who is advising policy makers; in simulations of various policy forums, they will then learn how to defend their recommendations and advice. They will first be taught the relevant quantitative research skills and introduced to potentially useful research resources. They will then be expected to construct their own research strategy, carry out the necessary research and present this in various formats, working independently of the teaching staff.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	Passes in one of GG3201, GG3202, GG3203			
Learning and teaching methods and delivery:	Weekly contact: Lectures, tutorials and practical classes.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 13%, Coursework = 87%			
	As used by St Andrews: Coursework = 87%, Practical Examination = 13%			
Module Co-ordinator:	Dr D S Houston			
Lecturer(s)/Tutor(s):	Team taught			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG4224 Advanced Topics in Physical Geography				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module will introduce students to a range of advanced and cutting edge topics in Physical Geography. Four topics will be offered each year that will build on material explored in 3000-level Honours modules, and will also expand and deepen students' practical skill base. Each topic will include in-depth study of the primary literature, combined with advanced training in analytical, technical or methodological approaches, thus integrating "hands-on" applied learning with critical reading of the primary literature.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	Passes in one of GG3201, GG3202, GG3203			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures weekly and 1 x 1-day field class.			
	Scheduled learning: 32 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R J S Wilson			
Lecturer(s)/Tutor(s):	Dr R J S Wilson, Dr V Rinterknecht, Dr M D Singer, Prof A Werritty			

GG4225 Advanced Demographic Methods				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>This module allows students to master the quantitative methods used in demographic analysis. These methods are distinctive and form an important skill set for anyone interested in studying population trends. The module will cover all the main branches of the subject: fertility, mortality, nuptiality, population dynamics, age structure, and population projections.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	Passes in one of GG3201, GG3202, GG3203			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures weekly and fortnightly practical classes.			
	Scheduled learning: 32 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C C B Wilson			
Lecturer(s)/Tutor(s):	Dr C C B Wilson			

Geography & Geosciences - Honours Level 2012/13 - August 2012

GG4297 Joint Honours Research Dissertation in Geography				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
The research dissertation is the fundamental piece of independent work upon which the Geography degree is based. It provides students with the opportunity to design and undertake an independent, original piece of empirical research under the supervision of a member of staff. The dissertation is a substantial, independent piece of research that represents the culmination of both substantive and core training in Geography. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Joint Honours Geography			
Pre-requisite(s):	GG3202	Anti-requisite(s):	GG4298, GE4018	
Learning and teaching methods and delivery:	Weekly contact: one-to-one supervision			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr S Leahy			
Lecturer(s)/Tutor(s):	Team taught			

GG4298 Research Dissertation in Geography				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
The research dissertation is the fundamental piece of independent research work upon which the Geography degree is based. It provides students with the opportunity to design and undertake an independent, original piece of empirical research under the supervision of a member of staff. The dissertation is a substantial, independent piece of research that represents the culmination of substantive and core training in Geography. An important component of the dissertation is the annual Senior Honours Research Conference at which all students present their work to members of the school and to Junior Honours students in either oral paper sessions or scientific poster sessions. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Single Honours Geography, all 'Geography with' degrees			
Pre-requisite(s):	GG3201 or GG3203	Anti-requisite(s):	GG4297, GE4018	
Learning and teaching methods and delivery:	Weekly contact: one-to-one supervision			
	Scheduled learning: 12 hours		Guided independent study: 488 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation and Conference paper = 100%			
Module Co-ordinator:	Dr S Leahy			
Lecturer(s)/Tutor(s):	Team taught			

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GG4301 Advanced Study for Joint or Major Honours in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
This module is designed to allow Joint or Major Honours students in their Senior Honours year to engage with the subject matter of a selected 20-credit optional module in Geography (GG3221 - GG3289) yet balance the workload across the four semesters of their Honours programme. Students complete the contact hours of their chosen module but undertake a separate assessment, at 4000-level (an advanced essay).				
Programme module type:	Optional for all degrees involving Geography except Single Honours			
Pre-requisite(s):	Entry to a Joint or Major Honours programme in Geography, and normally a pass in one of GG3201, GG3202, GG3203			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 23 hours		Guided independent study: 77 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C C B Wilson			
Lecturer(s)/Tutor(s):	Various			

InterDisciplinary (ID) Modules

ID4441 Combined Chemistry and Geology Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Planned timetable:	2 days per week.			
The research project at Level 4000 for Chemistry and Geology 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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology			
Pre-requisite(s):	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geology			
Anti-requisite(s):	CH4442-CH4448, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Reflection, laboratory work, library work, written and oral presentation preparation.			
	Scheduled learning: 34 hours		Guided independent study: 466 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr T A Raub (Earth Sciences), Dr A Aitken (Chemistry)			

Geography & Geosciences - Honours Level 2012/13 - August 2012

ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module provides an individual research project on a topic spanning the biological and geological sciences 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. The project will be supported by advisors in both Biology and Geology. 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). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for B.Sc. Honours programme in Biology and Geology			
Pre-requisite(s):	Admission to BSc Honours programme in Biology and Geology			
Learning and teaching methods and delivery:	Weekly contact: Individual supervision by member(s) of teaching staff			
	Scheduled learning: 20 hours		Guided independent study: 430 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Research proposal = 5%, Oral Presentation = 10%, Dissertation = 85%			
Module Co-ordinator:	Dr T Raub			
Lecturer(s)/Tutor(s):	Dr T Raub			

School of History

Including: Mediaeval, Modern and Scottish History and Middle East Studies (see also Ancient History within the Classics section, and Arabic within the Modern Languages section)

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

History - Single Honours M.A.

First Year: At least 40 credits: AN1001, AN1002, ME1003, ME1006, MO1007, MO1008.
 Second Year: At least 60 credits: AN2002, AN2003, ME2003, MH2002, MO2008, HI2001 - with passes at grade 11 or better.

Over the first two years, passes must be gained in modules from at least two of the ranges AN, ME and MO and at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: 120 credits: 60 each from two of the following groups: AN4103 - AN4998; ME3001 - ME3689; MO3001 - MO3795.

Fourth Year: 30 credits: CL4999 **or** HI4997 **or** HI4998 **or**, with permission from the Chair of the Degree Committee, HI4999;
 60 credits in one of: ME4701 - ME4889, MO4801 - MO4995;
 30 further credits in one of: ME3001 - ME3689, MO3001 - MO3795 **or**, with permission from the Director of Teaching, (ID4002 **with** HI4101).

Not more than 120 credits may be chosen from the Scottish History group (ME3140 - ME3159, ME3301 - ME3389, MO3060 - MO3079, MO3160 - MO3179, MO3260 - MO3279, MO3360 - MO3379, MO3460 - MO3479, MO3560 - MO3579, MO3760 - MO3779) and not more than 120 credits may be chosen from modules taught by any one member of staff.

A student may, with permission of the Honours Adviser, substitute 30 credits in Third or Fourth Year for 3000-level or 4000-level credits in another School.

History - Honours Level 2012/13 - August 2012

Mediaeval History - Single Honours M.A.

First Year: 40 credits: ME1003 **and** ME1006.

Second Year: 20 credits: ME2003 - with a pass at grade 11 or better.

20 credits: AN2003 **or** HI2001 **or** MH2002 **or** MO2008.

Over the first two years, a further pass (other than ME2003) must be at 11 or better and at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: 120 credits in four of: ME3001 - ME3689, MO3026, MO3036, MO3037.

Fourth Year: 30 credits: HI4997 **or** HI4998 **or** HI4999, with permission from the Chair of the Degree Committee;

60 credits in one of: ME4701 - ME4889;

30 further credits: ME3001 - ME3689, MO3026, MO3036, MO3037 **or**, with permission from the Director of Teaching (ID4002 **with** HI4101). Students who are permitted to take ID4002 may take HI4997 or HI4998 instead of HI4999.

Not more than 120 credits may be chosen from modules taught by any one member of staff and not more than 150 credits may be chosen from modules in British History.

A student may, with permission of the Chair of the Degree Committee, substitute 30 credits in Third or Fourth Year for 3000-level or 4000-level credits in another School.

Mediaeval History - Joint Honours M.A.

Mediaeval History and one of: Arabic^W, Art History, Biblical Studies, Classical Studies, Comparative Literature, Economics, English, French^W, Geography, German^W, International Relations^T, Italian^W, Latin, Mathematics, Middle East Studies, Philosophy, Psychology, Russian^W, Social Anthropology, Spanish^W, Theological Studies^T.

^T Timetable clash exists, combination subject to arrangement by both Departments.

^W also available as 'With Integrated Year Abroad' degree

Mediaeval History element of Joint Honours M.A.:

First Year: 40 credits: ME1003 **and** ME1006.

Second Year: 20 credits: ME2003 - with a pass at grade 11 or better.

20 credits: AN2003 **or** HI2001 **or** MH2002 **or** MO2008.

Over the first two years, a further pass (other than ME2003) must be at 11 or better and at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: 60 credits in two of: ME3001 - ME3689, MO3026, MO3036, MO3037.

Fourth Year: **EITHER**

60 credits in one of: ME4701 - ME4889;

OR

30 credits: HI4997 **or** HI4998 **or** HI4999, with permission from the Chair of the Degree Committee;

30 further credits in one of: ME3001 - ME3689, MO3026, MO3036, MO3037 **or**, with permission from the Director of Teaching (ID4002 **with**, if necessary, HI4101).

Not more than 90 credits may be chosen from modules taught by any one member of staff and not more than 90 credits may be chosen from modules in British History.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Mediaeval History & Archaeology - Single Honours M.A.

First Year: 40 credits: ME1003 **and** ME1006.

Second Year: 20 credits: ME2003 – with a pass at grade 11 or better.

20 credits: AN2003 **or** HI2001 **or** MH2002 **or** MO2008.

Over the first two years, a further pass (other than ME2003) must be at 11 or better and at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: 30 credits: AN3020;

60 credits: AN4117, AN4121, AN4125, AN4127, AN4130, AN4132, AN4145, CL4424, ME3101 - ME3189;

30 further credits: ME3001-ME3689.

Fourth Year: 30 credits: ME4998;

60 credits: ME4701 - ME4889

30 further credits: ME3001 - ME3689.

Not more than 120 credits may be chosen from modules taught by any one member of staff and not more than 150 credits may be chosen from modules in British History.

A student may, with permission of the Chair of the Degree Committee, substitute 30 credits in Third or Fourth Year for 3000-level or 4000-level credits in another School.

Mediaeval Studies - Single Honours M.A.

First and

Second Years: 240 credits in total, to meet the requirements of at least three groups:

Group A: EITHER

40 credits from two of: ME1003, ME1006, ME2003 - with passes at grade 11 or better.

OR

20 credits: HI2001– with a pass at grade 11 or better;

20 credits: ME1003 **or** ME1006 **or** ME2003 - with a pass at grade 11 or better;

20 credits: AN2002 **or** AN2003 **or** MH2002 **or** MO2008, unless ME2003 taken, in which case 20 credits from AN1000 - AN1099 **or** ME1000 - ME1099 **or** MO1000 - MO1099 may be substituted;

20 further credits: AN1000 - AN1099 **or** ME1000 - ME1099 **or** MO1000 - MO1099 **or** AN2002 **or** AN2003 **or** MH2002 **or** MO2008.

Group B: EITHER

20 credits: EN2003 - with a pass at grade 11 or better.

OR

60 credits: FR1001 **and** FR1002 **and** FR2021;

20 credits: FR2022 - with a pass at grade 11 or better.

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OR

40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004);

40 credits: (GM2001 **with** GM2004) **or** (GM2002 **with** GM2003) **or** (GM2007 **with** GM2010) **or** (GM2008 **with** GM2009) - with a pass at grade 11 or better in the Semester 2 module.

OR

40 credits: (IT1001 **and** IT1002) **or** (IT1003 **and** IT1004 **and** (IT1005 **or** IT1007) **and** (IT1006 **or** IT1008 **or** IT1012));

20 credits: IT2001;

20 credits: IT2002 - with a pass at grade 11 or better.

Group C: 20 credits: AH1001 **or** AH1002

Group D: 20 credits: PY1005 - PY1106;

40 credits: PY2001 - PY2103 - with passes at grade 11 or better.

Third and
Fourth Years:

240 credits, including between 30 and 120 credits from each of at least three groups:

Except that a student may, with permission of the Honours Adviser and any other school involved, take up to 30 credits towards the total in another subject or level.

Group A: AN4107, AN4108, ME3001 - ME3689, ME4701 - ME4889, MO3026, MO3036, MO3037, HI4999, (ID4002, with permission of Director of Teaching, **with** HI4101 if necessary and (HI4997 **or** HI4998) if desired);

Group B: EN3111 - EN3113, EN3412, EN4311, EN4314, EN4399, FR3013, FR3053, FR4114, FR4198, FR4199, GM3033, GM4076, GM4098, GM4099, IT3009, IT3012, IT4012, IT4098 - IT4099, RU3015, RU3107, RU3031, RU3032, RU4108, RU4198, RU4199, SP3011, SP4098, SP4099;

Group C: AH3102, AH3105, AH3113, AH4098, AH4101, AH4123, AH4134;

Group D: CL4410, PY4802, PY4819.

Not more than one of the following dissertation modules may be taken: AH4098, EN4399, FR4198, FR4199, GM4098, GM4099, HI4997 - HI4999, IT4098, IT4099, PY4802, RU4198, RU4199, SP4098, SP4099.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Middle East Studies - Joint Honours M.A.

Middle East Studies and one of: Arabic^W, Art History (European & North American Art), Classical Studies, Economics, English, Geography, German^W, Hebrew, International Relations, Italian^W, Latin, Management, Mediaeval History, Modern History, Russian^W, Social Anthropology, Spanish^W.

^W Available also as 'With Integrated Year Abroad' degree

Middle East Studies element of Joint Honours M.A.:

First Year: 40 credits: ME1003, MO1007, MO1008.

Second Year: 20 credits: MH2002 - with a pass at grade 11 or better.

20 credits: HI2001 **or** ME2003 **or** MO2008 - with a pass at grade 11 or better.

Third Year: At least 60 credits: IR3102, IR3109, ME3160 - ME3189, ME3601 - ME3689, MO3080 - MO3095, MO3180 - MO3195, MO3280 - MO3295, MO3380 - MO3395, MO3480 - MO3495, MO3580 - MO3595, MO3780 - MO3795.

Fourth Year: At least 30 credits: IR4507, IR4510, IR4520, IR4533, IR4099, HI4997, HI4998;
or, with permission from the Chair of the Degree Committee, HI4999, ME4850 - ME4895, MO4850 - MO4895;
or, with permission from the Director of Teaching, (ID4002 **with** HI4101).

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Admittance to 3000- and 4000-level IR modules requires permission from the Honours Advisers in Middle East Studies and International Relations. Students will normally be expected to have met the requirements for Honours entry to the School of International Relations.

Modern History - Single Honours M.A.

First Year: 40 credits: MO1007 **and** MO1008.

Second Year: 40 credits: MO2008 **and** HI2001 – with passes at grade 11 or better in both.

Over the first two years, at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: 120 credits in four of: MO3001 - MO3795.

Fourth Year: 60 credits in one of: MO4801 - MO4995;

30 credits: HI4997 **or** HI4998 **or**, with permission from the Chair of the Degree Committee, HI4999;

A further 30 credits: MO3001 - MO3795 **or**, with permission from the Director of Teaching (ID4002 **with** HI4101).

Not more than 120 credits may be chosen from modules taught by any one member of staff and not more than 180 credits may be chosen from modules in British History. Students must take at least one module dealing with the period before 1815, and one module dealing with the period since 1815.

A student may, with permission of the Chair of the Degree Committee, substitute 30 MO credits in Third or Fourth Year for 3000-level or 4000-level credits in another subject.

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Modern History - Joint Honours M.A.

Modern History and one of: Arabic^W, Art History, Classical Studies, Comparative Literature, Economics, English, Film Studies, French^W, Geography, German^W, International Relations, Italian^W, Latin, Management, Mathematics, Middle East Studies, New Testament, Philosophy, Psychology^T, Russian^W, Social Anthropology^T, Spanish^{W,T}, Theological Studies.

^W Available also as 'With Integrated Year Abroad' degree

^T Timetable clash exists, combination subject to arrangement by both Departments.

Modern History element of Joint Honours M.A.:

First Year: 40 credits: MO1007 **and** MO1008.

Second Year: 40 credits: MO2008 **and** HI2001 – with passes at grade 11 or better in both.

Over the first two years, at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: 60 credits in two of: MO3001 - MO3795.

Fourth Year: **EITHER**

60 credits in one of: MO4801 - MO4995;

OR

60 credits including:

30 credits: HI4997 **or** HI4998 **or**, with permission from the Chair of the Degree Committee, HI4999;

30 further credits in one of: MO3001 - MO3795, **or**, with permission from the Director of Teaching (ID4002 **with** HI4101).

Not more than 90 credits may be chosen from modules taught by any one member of staff.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Scottish History - Single Honours M.A.

First Year: 20 credits: ME1006;

20 credits: ME1003 **or** MO1007 **or** MO1008.

Second Year: 20 credits: MO2008 - with a pass at grade 11 or better;

20 credits: HI2001 **or** ME2003 – with a pass at grade 11 or better.

Over the first two years, at least 40 credits must be gained in modules other than those in the ranges AN, HI, ME, MH, MO and DI2006.

Third Year: **EITHER**

120 credits in four of: ME3140 - ME3159, ME3301 - ME3389, MO3060 - MO3079, MO3160 - MO3179, MO3260 - MO3279, MO3360 - MO3379, MO3460 - MO3479, MO3560 - MO3579, MO3760 - MO3779;

OR, with permission from the Chair of the Degree Committee:

60 credits in two of: ME3140 - ME3159, ME3301 - ME3389, MO3060 - MO3079, MO3160 - MO3179, MO3260 - MO3279, MO3360 - MO3379, MO3460 - MO3479, MO3560 - MO3579, MO3760 - MO3779;

60 credits in two of: AN4103 - AN4133, ME3000 - ME3999, MO3000 - MO3999.

Fourth Year: 30 credits: HI4997 **or** HI4998 **or**, with permission from the Chair of the Degree Committee, HI4999;

60 credits: ME4750 - ME4789 **or** MO4801 - MO4849;

A further 30 credits in one of: ME3140 - ME3159, ME3301 - ME3389, MO3060 - MO3079, MO3160 - MO3179, MO3260 - MO3279, MO3360 - MO3379, MO3460 - MO3479, MO3560 - MO3579, MO3760 - MO3779, **or**, with permission from the Director of Teaching, (ID4002 **with** HI4101), **or**, with permission from the Chair of the Degree Committee and provided that no more than 30 credits from these modules were obtained in Third Year, AN4103 - AN4133, ME3000 - ME3999, MO3000 - MO3999.

Not more than 120 credits may be chosen from modules taught by any one member of staff.

A student may, with permission of the Chair of the Degree Committee, substitute 30 credits in Third or Fourth Year for 3000-level or 4000-level credits in another school.

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Scottish History - Joint Honours M.A.

Scottish History and one of: Classical Studies, English, Film Studies, Geography, International Relations, Italian^w, Mathematics, Philosophy, Russian^w, Social Anthropology, Spanish^w.

^w Available also as 'With Integrated Year Abroad' degrees.

First Year: 20 credits: ME1006;

20 credits: ME1003 **or** MO1007 **or** MO1008.

Second Year: 20 credits: MO2008 - with a pass at grade 11 or better;

20 credits: HI2001 **or** ME2003 - with a pass at grade 11 or better.

Third Year: 60 credits in two of: ME3140 - ME3159, ME3301 - ME3389, MO3060 - MO3079, MO3160 - MO3179, MO3260 - MO3279, MO3360 - MO3379, MO3460 - MO3479, MO3560 - MO3579, MO3760 - MO3779.

Fourth Year: **EITHER**

60 credits: ME4750 - ME4789, MO4801 - MO4849.

OR

30 credits: HI4997 **or** HI4998 **or**, with permission from the Chair of the Degree Committee, HI4999;

A further 30 credits: ME3140 - ME3159, ME3301 - ME3389, MO3060 - MO3079, MO3160 - MO3179, MO3260 - MO3279, MO3360 - MO3379, MO3460 - MO3479, MO3560 - MO3579, MO3760 - MO3779, or, with permission from the Director of Teaching, (ID4002 **with** HI4101).

Not more than 90 credits may be chosen from modules taught by any one member of staff.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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 (HI) Modules

HI4101 Communication in History				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module is a part of 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes in History to contemporary contexts. It is available only to participants in the placement module. Students will normally take this module in Semester 1 but, with the permission of the Director of Teaching, it may be taken in Semester 2.				
Programme module type:	With permission, this is an optional module (taken with ID4002) for History, Single Honours Mediaeval History, Middle East Studies, Modern History, Scottish History			
Co-requisite(s):	Usually ID4002			
Learning and teaching methods and delivery:	Weekly contact: Weekly tutorials.			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr S Tyre			

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HI4997 Recording the Past			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Availability restrictions:	Available only to students in the Second year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>With the consent of the module coordinator and of the Chair of the Degree Committee, candidates may submit a project in the form of a radio programme, video documentary, website or other appropriate medium. RECORDING THE PAST is designed to encourage the development of skills of historical analysis through concentrated study on a chosen topic and, in addition, the development of new skills of presentation through multimedia. Group projects are welcome, their volume being dependent on the numbers involved. Regardless of the medium used, the project outcome is assessed on the quality of the research and analysis (including oral interviews and photographic, film or sound sources) and on the technical quality of the final outcome. The project may build on work already done in another module, but it must break new ground and use substantially new research. While some training in multimedia techniques will be offered, the student should already possess some experience in the medium in which he/she chooses to present the project.</p>			
Programme module type:	HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or with permission HI4999 is compulsory for Mediaeval History, Modern History, Scottish History. HI4997 or HI4999 (or HI4998 when permitted to take ID4002 and HI4101) is compulsory for Mediaeval History, Mediaeval Studies Optional for Middle East Studies.		
Anti-requisite(s):	HI4998, HI4999, ME4998, CL4999		
Learning and teaching methods and delivery:	Weekly contact: Weekly seminars, fieldwork and film/video viewing.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 65%, Practical Examinations = 0%, Coursework = 35%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof G DeGroot		
Lecturer(s)/Tutor(s):	Prof G DeGroot		

HI4998 Honours Project in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or HI4999 with permission is compulsory for Mediaeval History, Modern History, Scottish History. HI4997 or HI4999 (or HI4998 when permitted to take ID4002 and HI4101) is compulsory for Mediaeval History, Mediaeval Studies Optional for Middle East Studies.			
Anti-requisite(s):	HI4997, HI4999			
Learning and teaching methods and delivery:	Weekly contact: Fortnightly tutorials.			
	Scheduled learning: 12 hours		Guided independent study: 288 hours	
Assessment pattern:	As defined by QAA: Written Examination = 25%, Practical Examination = 0%, Coursework = 75%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof F L Muller			

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HI4999 Honours Dissertation in History			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Availability restrictions:	Available only to students in the Second year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Programme module type:	<p>HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or with permission HI4999 is compulsory for Mediaeval History, Modern History, Scottish History. HI4997 or HI4999 (or HI4998 when permitted to take ID4002 and HI4101) is compulsory for Mediaeval History, Mediaeval Studies With permission, Optional for Middle East Studies.</p>		
Anti-requisite(s):	HI4997, HI4998		
Learning and teaching methods and delivery:	Weekly contact: Tutorials as required.		
	Scheduled learning: 12 hours	Guided independent study: 288 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Module Co-ordinator:	Dr B Struck		

Mediaeval History (ME) Modules

ME3016 Ireland in the Later Middle Ages: Nations and Conflicts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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 organisation differentiated the two peoples, encouraging the expression of clear views on racial identities and the existence of numerous militarised 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 decentralised 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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr M H Brown			
Lecturer(s)/Tutor(s):	Dr M H Brown			

ME3101 Britons and Saxons, c. 570 - 822				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr A D Woolf			
Lecturer(s)/Tutor(s):	Dr A D Woolf			

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ME3102 Gildas and the Ruin of Britain c. 367 - 570				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr A D Woolf			
Lecturer(s)/Tutor(s):	Dr A D Woolf			

ME3162 The Mediaeval Castle				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, , Mediaeval Studies, Middle East Studies			
Anti-requisite(s):	ME3411			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr A D Stewart			
Lecturer(s)/Tutor(s):	Dr A D Stewart			

ME3206 Heretics and Social Outcasts in Western Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof F E Andrews			
Lecturer(s)/Tutor(s):	Prof F E Andrews			

ME3212 Men, Women and Family in the Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Family, kinship and household were fundamental to the social and political organisation of mediaeval Europe (c.1000-1500). Using gender as a tool of historical analysis this option will focus on masculinities, femininities and sexualities as a means of illuminating the changing nature of society and the family during this period. Topics covered will include: chivalric masculinity, clerical masculinity, court politics, women and religion, homosexuality, chastity and virginity.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr K Fenton			
Lecturer(s)/Tutor(s):	Dr K Fenton			

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ME3222 Inca Civilisation and its Destruction				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof C J Given-Wilson			
Lecturer(s)/Tutor(s):	Prof C J Given-Wilson			

ME3223 The Rise and Fall of the Carolingian Empire, c.750 - 900				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module deals with the history of the Carolingian dynasty, who ruled the last pan-European empire of the middle ages, stretching from Brittany in the west to the frontiers of what is now Hungary in the east. Beginning with the spectacular conquests and cultural reforms of the emperor Charlemagne, the module traces the transformation and ultimate disintegration of the empire under his descendants. Why did the empire collapse? And even more importantly, what held it together in the first place? Central themes include 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 raids; the development of the office of queenship; exploitation of the peasantry and economic change; and the importance of the period for the emergence of Europe.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr S MacLean			
Lecturer(s)/Tutor(s):	Dr S MacLean			

ME3231 Mediaeval Apocalyptic Traditions 400 - 1200				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J Palmer			
Lecturer(s)/Tutor(s):	Dr J Palmer			

ME3232 Queens and Queenship in Early Mediaeval Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr S MacLean			
Lecturer(s)/Tutor(s):	Dr S MacLean			

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ME3233 The Gothic and Frankish Kingdoms 400 - 700				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module surveys the formation of the key 'barbarian kingdoms' which emerged in the post-Roman West. It is a period once characterised 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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J Palmer			
Lecturer(s)/Tutor(s):	Dr J Palmer			

ME3235 Mediaeval Political Thought				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will explore the ideas that shaped social and political life in the West during the middle ages. Students will examine how constantly evolving concepts such as authority, liberty, and justice have been fundamental in influencing how modern society looks today. An understanding of such ideas is crucial for a proper understanding of Western history, and this module will examine the development of political thought and its historical context throughout the mediaeval period. Students will be introduced to the works of highly influential authors such as Aristotle and St. Augustine, and explore how their ideas were adopted and developed by mediaeval writers such as John of Salisbury, Thomas Aquinas, Dante Alighieri, and Niccolo Machiavelli.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr R Cox			
Lecturer(s)/Tutor(s):	Dr R Cox			

ME3301 The End of the Middle Ages? Scotland and England in the Fifteenth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Anti-requisite(s):	ME3014			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr K C Stevenson			
Lecturer(s)/Tutor(s):	Dr K C Stevenson			

ME3303 The Renaissance in Late Mediaeval Scotland				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr K C Stevenson			
Lecturer(s)/Tutor(s):	Dr K C Stevenson			

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ME3309 Mediaeval St Andrews			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
St Andrews was of unique importance in the Middle Ages. It was the principal centre of the Scottish church, a pilgrim site of international significance, and the home of the first university in Scotland (and third in Britain after Oxford and Cambridge). It is also an excellent example of a mediaeval town. This module will explore the history of mediaeval St Andrews and consider this in relation to developments across mediaeval Europe. The module will draw on written historical sources, including those held by the Library's Special Collections, and utilise the outstanding local access to relevant material culture.			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Scottish History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%		
Module Co-ordinator:	Dr K C Stevenson		

ME3311 Bannockburn : War and National Identity in Late Mediaeval Europe			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
Bannockburn is regarded as one of the key battles of western history. Since the fourteenth century the two-day engagement has been accorded significance beyond its immediate context and military outcome. It has also been employed as a totemic symbol of Scotland's historical past and status as a European nation. Like other battles of the later Middle Ages, Bouvines, Courtrai, Crecy and Agincourt, Morgarten, Aljubarotta and Kosovo, Bannockburn has been identified with the rights and cause of a people. This module uses the events on the fields south of Stirling at midsummer 1314 as the basis for a wider consideration of warfare and its relation to issues of identity and allegiance. The military and political context of the battle will be analysed and the significance of Robert Bruce's victory for the future shape of Scotland and the British Isles will be discussed. Wider questions of battle, war and their relationship to senses of nationhood and past deriving from the late Middle Ages will be pursued in this module.			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%		
Module Co-ordinator:	Dr M Brown		
Lecturer(s)/Tutor(s):	Dr M Brown		

ME3417 The Middle Ages and the Movies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof R Bartlett			
Lecturer(s)/Tutor(s):	Prof R Bartlett			

ME3423 Justifying Mediaeval Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
A rich body of literature has emerged over the last 2,500 years concerning the moral challenges posed by warfare. Through Classical Greece and Rome to the early Church and the Middle Ages, the justice of war has been debated in theology, philosophy and law. This module will explore how ideas of 'just warfare' developed, and how certain 'rules' emerged which were intended to regulate or limit violent conflict. Students will examine how such theories and rules were espoused, observed, and ignored during the middle ages, and compare these ideas with the realities of medieval warfare. The module will focus largely on the Western tradition and warfare, but will also include seminars on Islamic and Eastern perspectives on justified violence.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr R Cox			
Lecturer(s)/Tutor(s):	Dr R Cox			

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ME3425 The Age of Revolt, 1250 - 1450				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module focuses on rebellions, revolts, and social movements in Western and Central Europe during the long fourteenth century, a period characterised as the 'golden age of revolt'. During this period, there were dozens - perhaps even hundreds - of uprising in both towns and countryside, which challenged the established order and which led to social and political changes that would endure through the early modern period. Focusing on specific rebellions, the module will examine the economic, political, and cultural causes of revolt. Topics to be considered include identity and deviance, theories of resistance, and discourses of power.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J M Firnhaber-Baker			
Lecturer(s)/Tutor(s):	Dr J M Firnhaber-Baker			

ME3426 Women and Gender in the Later Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module focuses on women's lives in Europe from about 1150 to about 1550. When we think about women in this period, we often assume that they had few avenues for self-expression, public recognition, or even personal happiness. In this course we will look at the social, cultural, and legal boundaries that confronted women, but our major focus will be on the lives that women were able to build despite - or even because - of these barriers. We will look at women across the social spectrum - from prostitutes to queens - and from all parts of Western Europe. We will focus less on images of women than on their actual lives. Our emphasis will be on ordinary women, but in each part of the course, we will also look at an individual or group of women to discuss how the section's themes played out on the micro level.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J M Firnhaber-Baker			
Lecturer(s)/Tutor(s):	Dr J M Firnhaber-Baker			

ME3602 The Crusades				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr A D Stewart			
Lecturer(s)/Tutor(s):	Dr A D Stewart			

ME3611 The Eastern Roman Empire in the Reign of Justinian 527 - 565				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explores the political, social and cultural history of the Empire of New Rome, centred on Constantinople, in the sixth century. Themes covered will include: external relations with established neighbours (Sasanian Persia) and recent arrivals (Ostrogoths in Italy, Slavs and Avars in the Balkans); contemporary theological controversies; society and economy in Egypt and the eastern Mediterranean; plague and holy men; artistic and literary culture (primarily through the works of the historian Procopius); faction, riot and urban disorder; imperial ideology; gender and representations of Theodora. Translated extracts from sources in Greek, Latin, Syriac, Armenian and Coptic will be studied. Some material, numismatic and papyrological evidence will also be introduced.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Anti-requisite(s):	ME3228			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

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ME3612 Cataclysm and Consolidation : the Reconfiguration of the Middle East in the Seventh Century

SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module traces the collapse of the established political order across the Middle East, through the eclipse of Sasanian Persia and the emasculation of the East Roman Empire, and the dramatic emergence of a new and dynamic Islamic polity. The module will explore the political, social and cultural aspects of these developments, discerning what changed, and at what rate, and what survived relatively unscathed. All the topics will be explored through close analysis of translated extracts from a wide range of sources in Greek, Arabic, Armenian, Syriac and Latin, set alongside material, numismatic and papyrological evidence.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Anti-requisite(s):	ME3228			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

ME3613 The Formation of Islamic Iran: From the Arab Conquests to the Seljuq Empire (600 - 1200)

SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
In the wake of the early Islamic conquests, between the seventh and twelfth centuries Iran was transformed into a predominantly Muslim society. Yet an Iranian identity with its roots in the pre-Islamic Sasanian empire and earlier was not forgotten. This module studies how Iranian and Islamic identity interacted and fused, creating a new culture expressed in the Persian language that was profoundly influential in the wider Islamic world, and was also adopted by the Turkish dynasties that dominated Iran from the eleventh century. Political, cultural and religious change in this formative period of Iranian history will be studied through both literary and material primary sources such as coins and inscriptions.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 60%, 3-hour Written Examination = 40%			
Module Co-ordinator:	Dr A C S Peacock			
Lecturer(s)/Tutor(s):	Dr A C S Peacock			

ME3614 The Eastern Roman World in the Late Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetableTuesdays			
<p>Between the Latin occupation of Constantinople 1204 - 1261, which coincided with the consolidation of Seljuk power in Anatolia, and the Ottoman conquest of the city in 1453, over two centuries elapsed in which the legacies of the Byzantine, Seljuk, and Mongol empires and of the Crusades remained politically and culturally influential, but real authority came to reside in a wide variety of regional actors with diverse roots (Byzantine, Turkish, French, Italian, Mongol, Albanian, Serbian, etc.) The fragmentation only ended with the final consolidation of Ottoman power in the old lands of Eastern Rome (Rum, Romania) in the second half of the fifteenth century. This module will study the period in as comprehensive a way as possible, in order to gain a broad understanding of political, economic, and cultural life.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D Kastritsis			
Lecturer(s)/Tutor(s):	Dr D Kastritsis			

ME4701 Henry I: Perceptions and Practice of Kingship in Anglo Norman England				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed.			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr K A Fenton			
Lecturer(s)/Tutor(s):	Dr K A Fenton			

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ME4710 England and France at War in the Fourteenth Century			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Availability restrictions:	Available only to students in the second year of Honours Programme		
Planned timetable:	9.30 am - 12.30 pm Wed.		
<p>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.</p>			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies		
Anti-requisite(s):	ME4904		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.		
	Scheduled learning: 88 hours	Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%		
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%		
Module Co-ordinator:	Dr R Cox		
Lecturer(s)/Tutor(s):	Dr R Cox		

ME4712 'A Century of Iron': Rulers, Warriors and Scholars in Tenth-Century England and Germany				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of Honours Programme			
Planned timetable:	9.30 am - 12.30 pm Wed.			
<p>The tenth century has traditionally been dismissed as a dark chapter in western European history, a 'century of iron' in which inelegant warlords lorded it over the wreckage of the Carolingian Empire, dissolute popes presided over a corrupt 'pornocracy' in Rome, and pagan raiders menaced the frontiers of Christendom. In the last 20 years, however, study of the period has been revitalised, and the tenth century is now at the centre of a series of fascinating debates about political power, economic change and the origins of Europe itself. This module explores the dynamics of the era via a comparative exploration of Germany and England under two of their most powerful rulers, Otto 'the Great' (936-73) and Edgar 'the Peaceful' (959-75) respectively. We will utilise a wide range of contemporary sources (narrative, documentary, artistic and archaeological) to examine and compare these intimately connected but strikingly different kingdoms. Topics include the nature and construction of royal power; invasion, conquest and warfare; aristocratic culture; political ritual; church reform; queens and queenship; economic change; the writing of history; and relations with the Byzantine and Islamic worlds.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr S MacLean			
Lecturer(s)/Tutor(s):	Dr S MacLean			

ME4753 Chivalry and Kingship: Scotland in the Late Middle Ages				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	10.00 am - 1.00 pm Wed			
<p>Chivalry was an important ethic that influenced the behaviour and values of the social elite. By the fourteenth and fifteenth centuries, the 'Arthurian' chivalry of the twelfth century had been modified and built upon to create a malleable ethic that could be used by the crown for its own political goals. Chivalry was an important part of court life in the fourteenth and fifteenth centuries and the expression of chivalric ideals reveals much about kingship in this period. This module examines the development of knighthood, the evidence of chivalric behaviour, and their relationships with the crown in late mediaeval Scotland.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr K C Stevenson			
Lecturer(s)/Tutor(s):	Dr K C Stevenson			

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ME4754 Conquest and Community: The British Isles in the Age of Edward I (1239 - 1307)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
Edward I is remembered as the conqueror of Wales, the hammer of the Scots and as a second King Arthur who united the British Isles under his rule. The reign of this powerful and domineering ruler was at the heart of an era of major conflict which witnessed the subordination or elimination of royal and princely dynasties by more powerful kings and the climax and decline of English lordship in the Medieval British Isles. Using a wide range of contemporary materials, the module focuses on this pivotal period in the thirteenth and early fourteenth century in which ideas of royal sovereignty and national identity combined to produce violent shifts in relations between and within the different realms of the British Isles. Edward's life and reign are set alongside those of his contemporaries and rivals, Simon de Montfort, Llywelyn of Gwynedd, Alexander III of Scotland and Robert Bruce. Among the themes examined are kingship, concepts of nation and community, the practice of warfare and the impact of royal warfare on political elites.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr M H Brown			
Lecturer(s)/Tutor(s):	Dr M H Brown			

ME4807 The Early Mendicants: Francis, Clare and Dominic, c. 1180 - c. 1270				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed.			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Prof F E Andrews			
Lecturer(s)/Tutor(s):	Prof F E Andrews			

ME4815 France from Philip Augustus to Philip the Fair				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module focuses on France from the accession of Philip II Augustus in 1180 to the aftermath of Philip IV the Fair's death in the 1310s. Over the course of this long century, the Capetian monarchy developed from an anaemic personal kingship restricted to the Ile-de-France into a bureaucratically administered government that covered much of modern France.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 9%, Coursework = 31%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr J M Firnhaber-Baker			
Lecturer(s)/Tutor(s):	Dr J M Firnhaber-Baker			

ME4852 From Leo VI to Basil II: Byzantium in the Tenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Anti-requisite(s):	ME4812			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar and occasional practicals and lectures.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

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ME4854 Byzantine and Ottoman Constantinople (Istanbul)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed.			
<p>This special subject provides a detailed historical introduction to one of the greatest cities in history: Constantinople or Istanbul, capital first of the Byzantine, then of the Ottoman Empire. We will be studying the city as a geographical space that remained constant for a millenium and a half; its structure and life at certain key moments; and how it changed over time. Specific themes to be considered include defense and provisioning, the urban economy, imperial and sacred space, and perception by inhabitants and visitors. Sources include chronicles, travel narratives, and other literary texts, as well as archeological and architectual plans and administrative documents.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr D Kastritsis			
Lecturer(s)/Tutor(s):	Dr D Kastritsis			

ME4855 Crusaders, Mongols and Mamluks : West and East in the Mid-Thirteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed.			
<p>This module will consider the range of interactions between the Latin West and the powers and cultures of the Near East and beyond, in the period will roughly between the first two Councils of Lyons, 1245-74, both of which dealt with crusading to the Levant and with matters relating to the Mongols: initially their threat and latterly the opportunities for alliance. The module will examine the crusades of the Louis IX, in their wider context; the arrival of the Mongols in the West and the creation of Mongol states there; the foundation of the Mamluk Sultanate; and the beginnings of the Mongol-Mamluk conflict and of attempts to create an Ilkhanid-Latin alliance. We will look in some depth at a variety of sources, especially focusing on the account of Louis IX's crusade by John of Joinville, and the accounts of two Franciscan travelers in the Mongol Empire, John of Plano Carpini and William of Rubruck.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr A D Stewart			
Lecturer(s)/Tutor(s):	Dr A D Stewart			

ME4901 The Cult of Saints				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed.			
This module studies a central aspect of mediaeval religious life, the veneration of the saints. In Martinmas 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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1.5-hour seminars.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Prof R Bartlett			
Lecturer(s)/Tutor(s):	Prof R Bartlett			

ME4998 Honours Dissertation in Mediaeval Archaeology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged.			
Specialised dissertation of 7,500 - 10,000 words on a topic in Mediaeval Archaeology for Honours students in the Mediaeval History and Archaeology degree. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Mediaeval History and Archaeology Optional for History, Mediaeval History			
Anti-requisite(s):	HI4997, HI4998, HI4999			
Learning and teaching methods and delivery:	Weekly contact: Tutorials as required.			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J T Palmer			
Lecturer(s)/Tutor(s):	Dr J T Palmer			

Modern History (ME) Modules

MO3005 The Early Reformation in Europe 1517 - 1555			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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 module explores the different media of conversion through which the evangelical message was communicated.			
Programme module type:	Optional for History, Modern History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof A Pettegree		

MO3019 The Life of the Mind: Key Texts in European Thought, 1512 - 1697			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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.			
Programme module type:	Optional for History, Modern History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%		
Module Co-ordinator:	Dr D Allan		
Lecturer(s)/Tutor(s):	Dr D Allan		

MO3023 Disease and the Environment, c. 1500 - 2000				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J F M Clark			
Lecturer(s)/Tutor(s):	Dr J F M Clark			

MO3025 Empire and Nation : The Development of Colonial British America 1607 - 1770				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr E Hart			
Lecturer(s)/Tutor(s):	Dr E Hart			

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MO3026 Art and Piety in Western Europe 1400 - 1750				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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. Classes and student assignments will make extensive use of pictures as well as of texts.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval Studies, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr B Heal			
Lecturer(s)/Tutor(s):	Dr B Heal			

MO3038 War and the State in the Era of the "Military Revolution" (1550 - 1730)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr G Rowlands			
Lecturer(s)/Tutor(s):	Dr G Rowlands			

MO3040 From Cradle To Grave : Living and Dying in Early Modern England, c. 1500 - 1800				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores life and death in England during a period of profound social, political, economic, religious and legal change. Topics which may be covered include family, community, society, agriculture, industry and the organic economy, poverty and its relief, young and old, male and female, population and its determinants, the body and physical health, mental health and suicide, death. Using printed or online primary source material and secondary reading will enable students critically to summarise and evaluate scholarly arguments, assess the nature and value of historical debate, and gain insights into the long-lost material environment and mental world of this fascinating period.				
Programme module type:	Optional for History, Modern History			
Anti-requisite(s):	MO3015			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

MO3041 Culture and Mentalities in Early Modern England, c. 1500 - 1800				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores aspects of English life, behaviour and attitudes in a period of profound social, political, economic, religious and legal change. Topics which may be covered include religion: the development of mainstream religions, 'alternative' belief (inc. astrology and witchcraft), technology and the rise of science, environment, consumption and the world of goods, recreation and leisure, education, literacy and their uses, time, space and work, individualism and corporatism, risk and probability, crime and violence, patterns of punishment. Using printed or online primary source material and secondary reading will enable students critically to summarise and evaluate scholarly arguments, assess the nature and value of historical debate, and gain insights into the long-lost mental world of this fascinating period.				
Programme module type:	Optional for History, Modern History			
Anti-requisite(s):	MO3015			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

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MO3043 Early Modern Rome, 1300 - 1667				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module introduces students to the city considered the centre of the Western World and the heart of Christianity and later, Catholicism during the Reformation period. It examines the changing city as well as the its changing image and propaganda during a period when its primacy and importance was constantly and violently challenged and reasserted as a symbol of civilisation.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examination = 40%, Practical Examination = 13%, Coursework = 47%			
	As used by St Andrews: Coursework = 60%, 3-hour Written Examination = 40%			
Module Co-ordinator:	Dr E Michelson			
Lecturer(s)/Tutor(s):	Dr E Michelson			

MO3044 Topics in Renaissance Venice				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module introduces students to the history, culture, and politics of Venice at the height of its power. Renaissance Venice was simultaneously the capital of a maritime and terrestrial empire, a glittering international destination for trade and culture, and the site of controversial innovations like Protestant thought, ghettos, and the printing press. It was for much of this era the only European model of a lasting independent republic. Then and now, it has been subject to a compelling but contested effort in mythmaking and propaganda.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr E Michelson			
Lecturer(s)/Tutor(s):	Dr E Michelson			

MO3045 The Politics of Monarchy in Tudor and Stuart England, 1500 - 1685				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Early modern rule was centered on the figure of the monarch. Access to the monarch conferred power, prestige, and the chance for profit. Over the course of the sixteenth and seventeenth centuries, Tudor and Stuart kingship underwent major changes: the incorporation of power over the church, the challenges of royal minority and female rule, and - after 1603 - increasingly recalcitrant parliaments who felt under threat from divine right or 'absolutist' rhetoric. Although the radical wing of the Parliamentarian forces in the Civil Wars managed to overthrow the monarchy, it is a moot point whether republicanism was viable. In this module, students are encouraged to consider change and continuity in argument about kingship: how Tudor monarchy developed from late medieval and Renaissance frameworks, how it responded to a variety of dynastic and religious pressures, and how Stuart monarchy was defended by royalists during the Civil Wars and reconstructed after 1660. There is a rich historiography on these debates, but students will also be encouraged to explore accessible primary sources on monarchy. They may choose to consider political thinking, or political practice, or how the two interrelate.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J E Rose			
Lecturer(s)/Tutor(s):	Dr J E Rose			

MO3046 The Uses of History and the Past in Early Modern Britain and Ireland				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module encourages students to explore the multiple meanings and uses of history and the past in Tudor and Stuart Britain and Ireland. This period saw an intensely historically-minded culture, where history was used in an unusually large variety of ways. The Renaissance model of classical history impelled the editing of classical texts and the didactic use of history to train princes and statesmen. History became a vital tool in political and religious argument - in early histories of the Reformation, the origins of parliament and the common law, and the power relationships between England, Wales, Scotland, and Ireland. This module considers these polemical histories alongside the 'social circulation of the past' - the gentry culture of antiquarianism, genealogy, and fascination with antiquities and monuments. Students studying this module will consider how far a discipline of 'history' distinct from antiquarianism, archaeology, and geography had emerged by the end of the early modern period.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr J E Rose			
Lecturer(s)/Tutor(s):	Dr J E Rose			

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MO3080 Nomadic Heritage and Persianate Culture: The Iranian World from the Timurids to the Safavids (1370 - 1722)

SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Between the Middle Ages and the modern period, the Middle East was dominated by dynasties of Turkish origins. Militarily supported by Turkish tribesmen, often seeking legitimacy in the political ideals of the great nomadic conquerors of the 13th-14th centuries, these dynasties also patronised a renaissance of Persian culture, and the greatest of them, the Safavids, laid the foundations for the modern Iranian state. This module investigates how the Iranian world - including central Asia and eastern Anatolia - was shaped by these Turkic dynasties, especially the Timurids and Safavids, and the interplay of different cultural and ethnic forces that shaped the early modern Middle East. The course will make extensive use of the primary sources in English translation as well as the secondary literature.</p>				
Programme module type:	Optional modules for History, Mediaeval History, Mediaeval Studies, Middle East Studies, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr A Peacock			
Lecturer(s)/Tutor(s):	Dr A Peacock			

MO3081 The Classical Ottoman Empire

SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module studies the development and culture of the 'classical' Ottoman Empire, from its definitive establishment in the middle of the fifteenth century into the seventeenth century. Themes include Ottoman expansion in Europe and the Middle East; centralisation and its discontents; relations with neighbours, such as Safavid Iran, the Habsburg Empire, and the Portuguese in the Indian Ocean; and Ottoman attitudes toward their empire and the wider world. In addition to knowledge of important historical events, this module aims to provide an introduction to the culture and social composition of the empire in the period under examination.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies, Modern History			
Anti-requisite(s):	ME3610			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr D Kastritsis			
Lecturer(s)/Tutor(s):	Dr D Kastritsis			

MO3112 Canada - From Age of Exploration to Age of Energy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will provide a history of Canada from the fifteenth century to present, with particular emphasis on the post-eighteenth-century period. The history of Canada, the second largest country in the world, is inextricably linked to its geography and other facets of the non-human natural world. Past historians and other Canadian commentators have argued that the nation forged its identity from the 'challenge' and uncertainty entailed in settling and taming a vast wilderness. Such an argument raises a number of interesting questions - not least surrounding the very idea of wilderness. How 'wild' was Canada when Europeans first made contact with 'the land God gave to Cain'? How did contact alter the traditional relationships of Native peoples with their environment? How important have fish, fur, forestry, and mineral wealth been in shaping imperial and nationalist ambitions for Canada? Finishing with the tar sands, the course reflects on the changes and continuities surrounding natural resources, the rights of Native peoples, provincial/federal relations, and Canada's place in the wider world.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 2 office hours.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J F M Clark			
Lecturer(s)/Tutor(s):	Dr J F M Clark			

MO3163 Scotland and the Wider World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Anti-requisite(s):	SC3045			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof S Murdoch			
Lecturer(s)/Tutor(s):	Prof S Murdoch			

History - Honours Level 2012/13 - August 2012

MO3166 Debating Britain: Anglo-Scottish Unionism 1603 - 1707				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module examines the idea of Britain as it was discussed and debated in the century between the union of the Anglo-Scottish crowns in 1603 and the union of the Scottish and English parliaments in 1707. In many respects the political and religious history of 17th century Britain can be understood as a series of attempts to make the fortuitous dynastic union of 1603 work in a way that would accommodate the interests and aspirations of the constituent parts of the multiple monarchy that the Stuart dynasty now presided over. Despite the often tumultuous events of the period, including civil war, regicide and revolution, there was little or no interest in dissolving the union. The union of parliaments of 1707, therefore, needs to be placed in the context, not just of immediate circumstances, but of a much longer series of attempts to fashion a workable British union.</p>				
Programme module type:	Optional for History, Modern History, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof R Mason			
Lecturer(s)/Tutor(s):	Prof R Mason			

MO3214 The Decline and Fall of the French Old Regime, 1715 - 1789				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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 regime 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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr G R Rowlands			
Lecturer(s)/Tutor(s):	Dr G R Rowlands			

MO3216 Science and Nation-Building in Europe, 1750 - 1900				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>"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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr B Struck			
Lecturer(s)/Tutor(s):	Dr B Struck			

MO3219 Print Culture in Britain, 1750 - 1900				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Reading is a skill that most of us take for granted, yet it gives us access to an amazing breadth of information and entertainment. This module examines the emergence of a mass reading culture in Britain in the long nineteenth century. It considers the rise of literacy and education, and the provision of cheaper forms of printed matter. It investigates the roles of authors, editors, publishers and booksellers in bringing print to the new reading public. As well as using printed and online secondary material critically to summarise and critically evaluate scholarly arguments about the history of the book, students will also have the opportunity to do hands-on research with original printed primary material and to learn about how books and magazines were made.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A K Fyfe			
Lecturer(s)/Tutor(s):	Dr A K Fyfe			

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MO3220 The Enlightenment and the World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module provides an introduction to one of the major topics in modern history. It will situate the Enlightenment in a global context, showing how the Enlightenment not only offered remedies for a Europe traumatised by the early modern wars of religion, but also encouraged a way of looking at the new worlds and civilisations beyond the old boundaries of Christendom, whether geographically, in India and China especially, or chronologically in the paganisms of classical antiquity. Special attention will also be paid to the more local significance of the Enlightenment in England, Scotland and Ireland.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Practical Examination = 10%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof C Kidd			
Lecturer(s)/Tutor(s):	Prof C Kidd			

MO3221 Politics, Culture and Society in the French Revolution, 1789-1815				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The tumultuous events of the French revolution marked a decisive moment in the history of modern France, causing a radical restructuring of society, politics and culture. The Revolution brought about the downfall of the monarchy, the aristocracy and religious institutions. It also had significant and far-reaching social and cultural effects, transforming gender roles and familial relations, and inaugurating radical transitions in France's cultural, scientific and intellectual life. This module studies the political and cultural impact of the Revolution in France and its colonies between 1789 and 1815. We begin by discussing the major events of 1789-93 and the transformations in the social hierarchy, religion and monarchy, gender relations, and even of the concept of time itself. We then examine the global spread of revolutionary ideals and how these were transmuted in the face of political violence under Robespierre and military expansion under Napoleon. The module concludes by asking how the Revolution reconfigured cultural and intellectual life in France.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr S Easterby-Smith			
Lecturer(s)/Tutor(s):	Dr S Easterby-Smith			

MO3260 Constructing Identities: Scottish Historians and the Past, 1707 - 1832				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Availability restrictions:				
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

MO3302 Imperial Russia 1815 - 1917				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

History - Honours Level 2012/13 - August 2012

MO3318 Revolutions, Nationalism and Reaction: 1848-1849 in the German Lands				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examination = 20%, Practical Examination = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof F L Muller			
Lecturer(s)/Tutor(s):	Prof F L Muller			

MO3319 'Power without Responsibility' The British Press and British Politics 1850 - 1939				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will examine the role of the press in the developing political culture in Britain from the mid-nineteenth 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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: Lecture and seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

MO3320 Imperialism and Nationalism: The British Empire and India 1857 - 1947				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: Weekly lecture and seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

MO3321 Russia - Real and Imagined : Ideas, Identity, and Culture (1800 - 2000)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

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MO3328 Making Italians : Region, Nation and Empire in Italy from Unification to Fascism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr K Ferris			
Lecturer(s)/Tutor(s):	Dr K Ferris			

MO3329 The Kaiser. Aspects of Emperor Wilhelm II, 1859 - 1941				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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, monarchial 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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 16%, Coursework = 24%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof F L Muller			
Lecturer(s)/Tutor(s):	Prof F L Muller			

MO3331 The Victorians : Religion and Respectability				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The Victorians often get a bad press, seen as pious, prudish do-gooders. Yet Britain in the nineteenth century had a powerful industrial economy, an expanding global influence and a vibrant culture of art, literature and leisure. This module focuses on the people who made Britain modern, and aims to look behind the stereotype of the Victorians. It uses the themes of religion and respectability to investigate the ideals and realities of middle-class life, including business and leisure, attitudes to gender and children, consumerism and the domestic interior. It also considers threats to these ideals, from the lifestyle of the industrial working classes, and from the advance of secularisation.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and occasional fieldwork.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr A K Fyfe			
Lecturer(s)/Tutor(s):	Dr A K Fyfe			

MO3332 From Commonwealth to Nations and Nation-States: Poland - Lithuania in the Long Nineteenth Century and Beyond				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The Commonwealth of the Kingdom of Poland and the Grand Duchy of Lithuania (or Poland-Lithuania in shorthand), which was erased from the political map of Europe in the late 18th century, is commonly presented in Polish and international historiography as an early Poland. It was not. In the 19th century, ethno-national movements of Belarusians, Latvians, Lithuanians, Poles and Ukrainians emerged from the defunct polity's territory and inhabitants. During the subsequent century they secured separate states for their postulated nations. Likewise, Poland-Lithuania's Jews decisively contributed to the creation of Israel in 1948. Furthermore, in the cracks between the nation-states of the successful nations, the fortunes of the now by and large forgotten ethnic groups of Baltic Germans, Goralians, Kashubs, Latgallians, Mazurs, Poleshuks, Rusyns, Samogitians, Tatars and Varmiaks have waxed and waned. It is necessary to take account of Poland-Lithuania and its multi-ethnic and multi-linguistic legacy in order to achieve a considered understanding of the development of Central and Eastern European history during the last two centuries.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

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MO3333 Language and Nationalism in Central Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Language was the ideological and practical basis for the emergence of national movements in Central Europe in the nineteenth century, and for the subsequent creation of nation-states in the region during the following century. This is often acknowledged but rarely explored. This module will investigate the process of making ethnolinguistic nations and their polities, the ideological and political underpinnings of this process, and their social ramifications in a comparative and interdisciplinary framework, over the time-span running from the Napoleonic Wars to the breakup of Yugoslavia. The significance of ethnolinguistic nationalism for the current situation in the region and for the situation in present-day Belgium, Northern Ireland and Spain will also be discussed.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

MO3360 The Weaker Sex? Women and Scottish Society 1800 - 1970				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module examines, through the lives of ten prominent women, gender issues in nineteenth and twentieth-century Scotland. Each of the lives illustrates 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.</p>				
Programme module type:	Optional for History, Modern History, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr W W Knox			
Lecturer(s)/Tutor(s):	Dr W W Knox			

MO3361 Scottish Social Problems 1800 - 1990				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Availability restrictions:				
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	XXX			
Anti-requisite(s):	SC3043			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr W W Knox			
Lecturer(s)/Tutor(s):	Dr W W Knox			

MO3410 The Third Reich: History and Historiography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 12%, Coursework = 28%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

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MO3419 The French 'Civil Wars' of the Twentieth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr S R Tyre			
Lecturer(s)/Tutor(s):	Dr S R Tyre			

MO3421 Making People's Music: Folk Music Revival and Society in the United States, 1900 - 1970				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 27%, Coursework = 13%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr G A M Mitchell			
Lecturer(s)/Tutor(s):	Dr G A M Mitchell			

MO3422 The United States in Depression and War (1929 - 1945)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr G A M Mitchell			
Lecturer(s)/Tutor(s):	Dr G A M Mitchell			

MO3423 Dictatorship in Practice: Everyday Life in Fascist Italy, Nazi Germany, Franco's Spain and the Stalinist Soviet Union.				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Ferris			
Lecturer(s)/Tutor(s):	Dr K Ferris			

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MO3502 War and Welfare: Britain 1939 - 1951				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO3513 Heavenly Decade: The 1960s				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof G De Groot			
Lecturer(s)/Tutor(s):	Prof G De Groot			

MO3516 Popular Culture, Nation and Society : Leisure in Britain 1880 - 1960				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Anti-requisite(s):	MO3502			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO3520 Political Culture in Postwar European Democracies: History, Memory and Identity, 1945 - 2005				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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 and 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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

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MO3713 The American Metropolis				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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 industrialisation, 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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%.			
Module Co-ordinator:	Dr E Hart			
Lecturer(s)/Tutor(s):	Dr E Hart			

MO3715 The American Constitution: Past and Present				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module covers the making of the American Constitution, the institutions and systems of government which it established, and its long turbulent history over the past two centuries. However, the primary focus of the course is upon the difficulties faced in recent decades by modern Americans in reconciling the aspirations of late twentieth- and early twenty-first century social, cultural and political aspirations with institutional forms which were - to a large extent - set in aspic over two hundred years ago. The course examines the interplay of eighteenth-century and twentieth-century concerns and the controversies which have arisen out of the encounter - in the Supreme Court especially - of America's eighteenth-century constitutional inheritance with modern social and political realities.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Practical Examination = 10%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof C Kidd			
Lecturer(s)/Tutor(s):	Prof C Kidd			

MO3761 Nationalism and Unionism in Modern Scotland				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module provides an examination of the phenomena of nationalism and unionism in modern Scottish history. It will explore the nature of the Union-state created in 1707 and the varieties of unionist ideology which sustained it, but it will also look at the emergence of a nationalist response in Scotland, which also took various forms ranging from Home Rule sentiment and reformist imperialism to the desire for total independence or 'independence in Europe'. A particular feature of the module will be the way it integrates the micro-politics of Fife and St Andrews in particular (including the careers of Thomas Chalmers and Douglas Young; by-elections in Fife; and the role of St Andrews in the rise of Thatcherism) into broader themes in the history of Scotland. Other issues to be tackled will include republicanism and the monarchy, religious tensions, the Constitution, and the relationships of Scotland with both England and Ireland.</p>				
Programme module type:	Optional for History, Modern History, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Practical Examination = 10%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Prof C Kidd			
Lecturer(s)/Tutor(s):	Prof C Kidd			

MO4804 Work and Politics in Modern Scotland				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed.			
<p>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.</p>				
Programme module type:	Optional for History, Modern History, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr W W Knox			
Lecturer(s)/Tutor(s):	Dr W W Knox			

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MO4805 The Scottish Enlightenment				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed.			
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.				
Programme module type:	Optional for History, Modern History, Scottish History			
Anti-requisite(s):	SC4111			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

MO4807 The Marian Moment: Politics and Ideology in Mary Stewart's Britain 1542 - 1587				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30pm Wed.			
The life of Mary Stewart (1542-1587) is among the best known and most highly mythologised 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 recognise that her life and reign generated a range of ideological debates that proved critical in crystallising and developing early modern thinking on such issues as the role of women in government, the rights of the people to resist tyranny, religious confessionalisation, 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 1508s.				
Programme module type:	Optional for History, Modern History, Scottish History			
Anti-requisite(s):	SC4114			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Prof R Mason			
Lecturer(s)/Tutor(s):	Prof R Mason			

MO4850 Britain and Iran in the Modern Era				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module will discuss and analyse the often intimate relationship between Iran and Britain in the modern period, focusing 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 module 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 module.				
Programme module type:	Optional for History, Modern History, Scottish History			
Anti-requisite(s):	MO4957			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Prof A M Ansari			
Lecturer(s)/Tutor(s):	Prof A M Ansari			

MO4903 The Catholic Reformation, 1414 - 1650				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module offers a study of the variety of reform movements which sprang up within the Catholic Church in the late Mediaeval and Early Modern periods. Through an examination of a rich variety of sources, the module will examine, among other themes, the power struggles of the fifteenth century, the relationship between the Renaissance and religion, missions in the New World, the Inquisition, new religious orders, and the tension between Tridentine Catholicism in Rome and the local practice of religion. Students will consider the bonds between belief, politics and culture in the Early Modern period.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr E D Michelson			
Lecturer(s)/Tutor(s):	Dr E D Michelson			

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MO4904 Madness and its Social Milieu in Britain, 1560 - 1820				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

MO4910 'The German Hercules' - Martin Luther and Germany, 1517 - 2000				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged.			
<p>Martin Luther was the dominant figure of the European Reformation. His ideas brought about the most radical break with the medieval world. Yet he had a particular significance for Germans, who saw him variously as a leader, a prophet, a symbol of a mythic unity, and as the arch-heretic. This module will explore Luthers ideas and the development of the German Reformation in its intellectual and historical contexts, as well as the different ways in which the reformers legacy has been interpreted by Germans from his own day to our age. The course will examine Luthers place in the German identities fostered in Bismarckian Germany, under National Socialism, and in the former German Democratic Republic.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr B M Heal			
Lecturer(s)/Tutor(s):	Dr B M Heal			

MO4912 French Absolutism: Richelieu to Louis XIV				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr G Rowlands			
Lecturer(s)/Tutor(s):	Dr G Rowlands			

MO4914 The German Enlightenment in European Perspectives				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme			
Planned timetable:	To be arranged.			
<p>"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 ones understanding without guidance from another." Since then the debate on this question has not come to an end. The module 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 module mainly focuses on the German lands but setting them in a European comparative context.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr B Struck			
Lecturer(s)/Tutor(s):	Dr B Struck			

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MO4916 England's Long Reformation, c. 1520 - c. 1720				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	10.00 am - 12.30 pm Wed.			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2 x 3-hour Written Examinations = 50%			
Module Co-ordinator:	Dr J Rose			
Lecturer(s)/Tutor(s):	Dr J Rose			

MO4921 Britain and its Empire in the Age of the Consumer Revolution 1660 - 1820				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr E F K Hart			
Lecturer(s)/Tutor(s):	Dr E F K Hart			

MO4930 The Technologies of Victorian Britain				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
The nineteenth century was the age of railways and bicycles, telegraphs and light bulbs. A vast array of new technologies came into use in Victorian Britain, and transformed people's lives at home, at work and in the streets. This module will enable you to learn about some of those technologies, with a particular emphasis on the way they were experienced by their early users. Alternating with the case studies, we will be investigating broader questions about the relationship between technology and society, and the nature of technological change, both as understood by the Victorians themselves, and as theorised by modern historians. As well as reading printed documents, we will visit the National Museum of Scotland, to consider what material culture can add to our understanding.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar per week and occasional fieldwork.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr A K Fyfe			
Lecturer(s)/Tutor(s):	Dr A K Fyfe			

MO4936 Bismarck : Biography - Politics - Mythology				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 14%, Coursework = 26%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Prof F L Muller			
Lecturer(s)/Tutor(s):	Prof F L Muller			

History - Honours Level 2012/13 - August 2012

MO4937 Charles Darwin and the Politics of Progress				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 12.00 noon Wed.			
<p>'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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr J F M Clark			
Lecturer(s)/Tutor(s):	Dr J F M Clark			

MO4938 Progress and Reform: The United States, 1880 - 1930				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 12.00 noon Wed.			
<p>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.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr G A M Mitchell			
Lecturer(s)/Tutor(s):	Dr G A M Mitchell			

MO4939 Civil War and Dictatorship in Spain, 1936 - 1959				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed.			
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 stabilisation 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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr K Ferris			
Lecturer(s)/Tutor(s):	Dr K Ferris			

MO4949 Debating Indian Futures: From Empire to Republic, 1917 - 1950				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

History - Honours Level 2012/13 - August 2012

MO4959 British Cinema History 1920 - 1960				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO4965 Ethnic Cleansing and Genocide in Twentieth-Century Europe				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
During the last two centuries modernisation has placed in the hands of governments unprecedented instruments and resources with which they can effect ideologically justified and politically motivated changes in the populations of states. Serious attempts at mass expulsions and exterminations of entire populations were first made in the 19th century in the colonies of the European powers. In Europe the phenomenon manifested itself during the 20th century, mainly in attempts to achieve a precise fit of nation-states with their ethnolinguistically defined nations. The massacres (genocide) of Armenians in the Ottoman Empire were followed by mass expulsions of other populations during and after World War I in Central Europe. World War II culminated in the genocide of the Jews and Roma, while after the war an even bigger wave of expulsions occurred. At approximately the same time, socially and nationally defined groups were exterminated or forcibly relocated within the Soviet Union. The internationally accepted conceptualisation and criminalisation of genocide in 1948 did not prevent renewed rounds of expulsions and attempted genocides in the second half of the 20th century in Central and Eastern Europe.				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: Coursework = 40%, 2 x 3-hour Written Examinations = 60%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

School of International Relations

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

International Relations - Single Honours M.A.

First Year: 40 credits: IR1005 **and** IR1006.
 Second Year: 40 credits: IR2005 **and** IR2006 - with passes at grade 11 or better in both.
 Third Year: 120 credits in four of: IR3000 - IR3999.
 Fourth Year: 60 credits: IR4099;
 60 further credits in two of: IR4000 - IR4999.

With the permission of the Director of Teaching and the relevant Head of School, 30 x 3000-level or 4000-level credits may be taken from another subject.

International Relations - Joint Honours M.A.

International Relations and one of: Arabic^W, Art History, Biblical Studies, Classical Studies, Comparative Literature, Economics, Film Studies, French^W, Geography, German^W, Italian^W, Management, Mathematics, Mediaeval History^T, Middle East Studies, Modern History, Philosophy, Psychology, Russian^W, Scottish History, Social Anthropology, Spanish^W, Theological Studies^T

^W Available also as 'With Integrated Year Abroad' degrees

^T Timetable clash exists therefore this combination is subject to arrangement with both departments

International Relations element of Joint Honours M.A.:

First Year: 40 credits: IR1005 **and** IR1006.
 Second Year: 40 credits: IR2005 **and** IR2006 - with passes at grade 11 or better in both.
 Third Year: 60 credits in two of: IR3000 - IR3999.
 Fourth Year: 60 credits in two of: IR4000 - IR4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

International Relations - Triple Honours M.A.

Modern Languages (two languages) and International Relations^w

The possible two language combinations are: French-German, French-Italian, French-Russian, French-Spanish, German-Italian, German-Russian, German-Spanish, Italian-Russian, Italian-Spanish, Russian-Spanish

^w Available also as 'With Integrated Year Abroad' degrees

International Relations element of M.A. Honours including two Modern Languages:

First Year: 40 credits: IR1005 and IR1006.

Second Year: 40 credits: IR2005 and IR2006 - with passes at grade 11 or better in both.

Third Year: Between 30 and 60 credits: IR3000 - IR3999.

Fourth Year: Between 30 and 60 credits: IR4000 - IR4999.

In total, 240 credits must be achieved at 3000 and 4000 level, of which 90 credits must be in International Relations, including at least 90 credits in total at 4000 level.

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

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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) Module

ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to students in the Schools of Divinity, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.		
Planned timetable:	To be arranged.		
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.			
Programme module type:	Optional for Divinity, Geography, History, International Relations, Modern Languages or Philosophy.		
Co-requisite(s):	If taken within Divinity, History, International Relations or Philosophy, a further 15-credit subject-specific module may be required.		
Learning and teaching methods and delivery:	Weekly contact: The module commences with an Induction Event at the University (3 hours). Students spend a minimum of 20 hours during the semester at their placement. 3 x 1-hour tutorials are held at the University during the semester. The module concludes with an oral presentation session.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%		
	As used by St Andrews: Coursework = 100% comprising: Written project proposal (10%) + written report (35%) = 45% Oral presentation (at University, assessed by module lecturers) = 30% A further 25% of Coursework is in the form of a report by their placement-mentor on the student's practical performance in the classroom on placement.		
Module Co-ordinator:	Dr E Stoddart		

International Relations - Honours Level 2012/13 - September 2012

International Relations (IR) Modules

IR3004 International Political Economy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Fri.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr W B Vlcek			
Lecturer(s)/Tutor(s):	Dr W B Vlcek			

IR3006 International Regimes and Organisations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon Wed.			
<p>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; politicisation and financial issues in the UN system, the post-cold War reform of the UN.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr M F Imber			
Lecturer(s)/Tutor(s):	Dr M F Imber			

International Relations - Honours Level 2012/13 - September 2012

IR3008 International Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon Thu.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr R Singh			
Lecturer(s)/Tutor(s):	Dr R Singh			

IR3011 Ethics and World Politics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	2.00 pm Tue.			
<p>This module will examine some of the most important ethical questions in contemporary world politics against the background of more general debates in ethics and political theory. Its objectives are: (1) to allow students to develop a knowledge of the complexities and problems of contemporary ethical and theoretical debates as they impact upon questions of world politics and (2) to develop a thorough account of the major ethical dilemmas of contemporary world politics. The module begins with a discussion of some of the major competing ethical approaches to world politics (cosmopolitan, realist, sceptical and critical) and then moves on to a focus on issues such as the use of force, justice, environmental concerns, and the character and possible evolution of the state as the central actor in world politics. It will close with a consideration of the importance of questions of character and virtue in world politics.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Prof N J H Rengger			
Lecturer(s)/Tutor(s):	Prof N J H Rengger			

International Relations - Honours Level 2012/13 - September 2012

IR3013 Modern Ideologies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Wed.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Examination = 50%			
Module Co-ordinator:	Dr G Slomp			
Lecturer(s)/Tutor(s):	Dr G Slomp			

IR3015 Religion, Politics and Democracy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am Mon.			
<p>This module explores the relationship between religion and politics, focusing in particular on issues of religion, democracy and democratisation. 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 secularised 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 democratisation 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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Prof J P Anderson			
Lecturer(s)/Tutor(s):	Prof J P Anderson			

International Relations - Honours Level 2012/13 - September 2012

IR3024 The Politics of Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am Tue.			
<p>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".</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Prof I C Taylor			
Lecturer(s)/Tutor(s):	Prof I C Taylor			

IR3025 International Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am Wed			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr H Stritzel			
Lecturer(s)/Tutor(s):	Dr H Stritzel			

International Relations - Honours Level 2012/13 - September 2012

IR3026 Diplomacy and Conflict Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr T Sheppard			
Lecturer(s)/Tutor(s):	Dr T Sheppard			

IR3029 The Logic of Irregular Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am Mon.			
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.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			

International Relations - Honours Level 2012/13 - September 2012

IR3030 Human Rights in Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	3.00 pm Mon.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr J Hayden			
Lecturer(s)/Tutor(s):	Dr J Hayden			

IR3031 Globalisation and the War on Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am Fri.			
<p>This inter-disciplinary module introduces students to various conceptual frameworks for thinking about the war on terror in an age of globalisation, 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 globalisation 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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr R Beasley			
Lecturer(s)/Tutor(s):	Dr R Beasley			

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IR3032 Globalisation and its Disjunctures				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am Thu.			
<p>Debates concerning globalisation have intensified since 9/11, the US-led intervention in Afghanistan and Iraq, the emergence of various Islamist groups that proclaim jihad, 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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr G Sanghera			
Lecturer(s)/Tutor(s):	Dr G Sanghera			

IR3033 Post-Conflict Transition in Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00am Tue.			
<p>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 organisations in Africa. Finally, critical approaches to peacekeeping and peace-building will be evaluated.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr J R McMullin			
Lecturer(s)/Tutor(s):	Dr J R McMullin			

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IR3035 Peace Processes and Violence				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	12.00 noon Fri.			
<p>This module will examine issues of violence that confront peacemaking processes 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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr H Cameron			
Lecturer(s)/Tutor(s):	Dr H Cameron			

IR3039 International Relations of the European Union				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am Thu.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Anti-requisite(s):	IR4527			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr H Stritzel			
Lecturer(s)/Tutor(s):	Dr H Stritzel			

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IR3041 International Political Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	2.00 pm Mon.			
This module introduces students to international political theory, or the use of ethical, political and legal theory to evaluate various international practices. Unlike IR theory, IPT is primarily normative in orientation, drawing on both the history of ideas and current political and ethical theory to give students tools for evaluating international affairs rather than simply explaining them. It addresses topics such as war, economics, environmental issues, law, and religion.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr A F Lang			
Lecturer(s)/Tutor(s):	Dr A F Lang			

IR3043 Approaches to Counter-Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	4.00 pm Mon.			
This module will explore 'orthodox'/mainstream, critical, and peace studies approaches to counter-terrorism. Beginning with a case-study on the UK's responses to 'radical' Islamism and the prevalence of Islamophobia, the students will begin to evaluate the different approaches for effectiveness. The module will highlight that less considered counter-terrorism practices and procedures offer different perspectives and quite possible different results.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C E Gentry			
Lecturer(s)/Tutor(s):	Dr C E Gentry			

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IR3044 Pathways of European State Formation				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	12.00 noon Tue.			
<p>The State is one of the most foundational units of analysis in International Relations, but where does it come from? This module explores the historical, and often violent, processes associated with the formation of the modern state in Europe, and the implications for the organisation of the economy and political society, as well as its impact for the larger development of the global political economy. Students will engage in how the creation of the state entails the parallel and commitment creation of categories into which bodies are designated, assigned, and condemned. The module begins with the transition from the mediaeval organisation of European society and concludes with an examination of the role of the state in facilitating and mediating the global economy.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J Murer			
Lecturer(s)/Tutor(s):	Dr J Murer			

IR3045 Violence in Deeply-Divided Societies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	3.00 pm Tue.			
<p>Bloodshed is what tends to keep divided societies in the headlines: yet the nature of this violence often remains under-examined as a political force in its own right. This module seeks to explain what drives processes of violence in deeply divided societies with particular emphasis on what happens at the grassroots and between communities. The module combines theory with in-depth consideration of four case studies from across Europe and the Middle East, taking a longer-term view of conflict in Northern Ireland, Yugoslavia, Israel/Palestine and Iraq.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr T Wilson			
Lecturer(s)/Tutor(s):	Dr T Wilson			

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IR3046 Foreign Policy of Modern China			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	12.00 noon Mon.		
<p>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.</p>			
Programme module type:	Optional for International Relations		
Anti-requisite(s):	IR4528		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.		
	Scheduled learning: 46 hours	Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr C Ogden		
Lecturer(s)/Tutor(s):	Dr C Ogden		

IR3047 Arrested Development? The Politics of Postcolonialism			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Planned timetable:	2.00 pm Thu.		
<p>This module provides an inter-disciplinary consideration of the promises and failures of post-colonialism and development. Students will be introduced to key texts such as Said's Orientalism and Fanon's Wretched of the Earth. Once a theoretical appreciation is developed, a number of case studies will consider historical and contemporary practices of post-colonialism. Critical engagement with literature and film will also be a fundamental part of the module.</p>			
Programme module type:	Optional for International Relations		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.		
	Scheduled learning: 46 hours	Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 10%, Coursework = 40%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Module Co-ordinator:	Dr M Burgis-Kasthala		
Lecturer(s)/Tutor(s):	Dr M Burgis-Kasthala		

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IR3048 Peacekeeping and Humanitarian Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am Tue.			
	<p>The module is designed to offer students who have undertaken some previous study in the area of International Relations an introduction to the theories and concepts of international peacekeeping and armed humanitarian intervention. Although we explore peacekeeping as a phenomenon with a long historical lineage, we concentrate on its 'refinement' as an instrument of the United Nations in the period since 1945. The approach adopted is very much a political one - concerned with the international relations and diplomacy of conflict management. This is not a training course for conflict resolution on the ground, much less a military handbook.</p>			
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Prof J P Anderson			

IR3049 International History and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am Tue.			
	<p>The study of international relations (IR) requires that students have an understanding of at least some of the literature and examples that are commonly used by international historians (IH). This necessity is due to the obvious historical roots of many of today's pressing problems in IR. This module will take a number of key themes (initially and for example), war, peace and empire, that have been often separately explored by IR and IH scholars and show how the two disciplines can reinforce and deepen the understanding of what we broadly call the 'international'. A series of case studies will be used, initially (and for example) that of the origins of the conflict in Palestine/ Israel; that of the origins of the Balkan conflicts of the 1990s, and; that of the roots of the decline of the British Empire in the period before, during and after the First World War. Each student will be expected to undertake historical research based on a use of secondary sources and also a study based on the use of primary, even archival sources.</p>			
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof A J Williams			
Lecturer(s)/Tutor(s):	Prof A J Williams			

IR3050 State, Power, Crime				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	±
Academic year:	Not available 2012-13 - withdrawn 31 August 2012			

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IR3051 International Relations Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	2.00 pm Mon.			
This module provides a more in depth exploration of theories of IR by focusing on some key theorists in the discipline. It will also demonstrate to students the utility of theory and method in the study of international relations, differentiating theories of IR from theories of politics and foreign policy more broadly.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr A F Lang			
Lecturer(s)/Tutor(s):	Dr A F Lang			

IR3052 The Politics of Violence and Resistance in Latin America				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am Tue.			
This module analyses armed conflict and civil war, dictatorship and conflict transformation in the Latin American region. The module documents the conflicts of the twentieth century and seeks to understand to what degree they have been overcome or have evolved as a result of conflict transformation processes involving both national and international actors that accompanied regional democratisation. The module engages with theoretical approaches central to core subjects of international relations and political science, juxtaposing said theoretical analyses with discussions based upon comparative empirical research in the region. The module is of relevance to students interested in Latin America and in those conceptual frameworks relating to conflict and peace studies and introduces broader academic discussions relating to theories of conflict, peacebuilding, the State, social movements, democracy and human rights. The module will also provide instruments to those students interested in developing a career in public policy and policy-making in national and international institutions.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr R Brett			
Lecturer(s)/Tutor(s):	Dr R Brett			

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IR3053 Peacebuilding and Post-Conflict Transition in Latin America				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>The module presents a detailed introduction to the process of conflict transformation in Latin America since the Third Wave of democratisation in the region during the 1980s. The approach taken in the module will be to contrast the theory and practice of conflict transformation and peacebuilding and will include a primary focus on the role and intervention of the United Nations System. In this regard, analysis will centre on conventional forms of peace-keeping, peace-making and peacebuilding supported by the United Nations, as well as on more innovative initiatives, in particular in local-level peacebuilding. The module engages with and evaluates key theoretical frameworks relating to conflict, peacebuilding, the State, democratization and sovereignty and will be relevant to students interested in developing a career in public policy and policy-making in national and international institutions. We will evaluate the impact of regional United Nations interventions, which will include an innovative analysis that juxtaposes elite peacebuilding practices with local-level peacebuilding initiatives. The module will include conferences from UN functionaries.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr R Brett			
Lecturer(s)/Tutor(s):	Dr R Brett			

IR3102 Conflict in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	10.00 am Mon.			
<p>This module centralises conflict within the Middle-East as a broad area of inquiry and investigates the political, economic and social conditions generating conflict both within and between states in the region. The subjects covered include the emergence and meaning of the "Nation-state" in the Middle East; the ideological relationship between Islam and Pan-Arabism; the latter and State-Nationalism; state civil society relations as well as inter-ethnic and gender-related conflicts. The module also covers all aspects of the Arab-Israeli conflict.</p>				
Programme module type:	Optional for International Relations, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr F McCallum			
Lecturer(s)/Tutor(s):	Dr F McCallum			

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IR3104 The International Relations of Post-Communist Central and Eastern Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	10.00 am Thu.			
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.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr R Fawn			
Lecturer(s)/Tutor(s):	Dr R Fawn			

IR3111 Asian Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	12.00 noon Fri.			
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.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			

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IR3113 Gender and Generation				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	2.00 pm Wed.			
<p>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; childrens economic role; and political theory as it relates to the family.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof A Watson			
Lecturer(s)/Tutor(s):	Prof A Watson			

IR4099 Honours Dissertation in International Relations				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation will be not more than 15,000 words. Topics must be capable of being supervised by 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 four research seminars and at least six supervisory meetings of up to one hour. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Single Honours International Relations. Optional for Joint Honours International Relations, International Relations and Modern Languages (two languages), Middle East Studies.			
Anti-requisite(s):	Any other Dissertation module			
Learning and teaching methods and delivery:	Weekly contact: Compulsory attendance at four research skills lectures of 90 minutes to be held in Weeks 1, 3, 5, and 7.			
	Scheduled learning: 103 hours		Guided independent study: 497 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Literature Review (semester 1) = 25%, Dissertation (semester 2) = 75%			
Module Co-ordinator:	Dr M Burgis-Kasthala			

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IR4401 Communication in International Relations			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	not applicable.		
This module is part of ID4002 'Communication and Teaching in Arts & Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes of International Relations to contemporary contexts. It is available only to participants in the placement module.			
Programme module type:	With permission, this is an optional module (taken with ID4002) for International Relations		
Co-requisite(s):	ID4002		
Learning and teaching methods and delivery:	Weekly contact: Independent work.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr F McCallum		
Lecturer(s)/Tutor(s):	Dr F McCallum		

IR4501 International Politics of Nuclear Weapons			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	11.00 am Wed.		
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.			
Programme module type:	Optional for International Relations		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.		
	Scheduled learning: 46 hours	Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Module Co-ordinator:	Prof W Walker		
Lecturer(s)/Tutor(s):	Prof W Walker		

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IR4507 International Relations of the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Tue.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Prof R Hinnebusch			
Lecturer(s)/Tutor(s):	Prof R Hinnebusch			

IR4514 Global Public Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	12.00 noon Wed.			
<p>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'.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr M F Imber			
Lecturer(s)/Tutor(s):	Dr M F Imber			

International Relations - Honours Level 2012/13 - September 2012

IR4516 The International Relations of Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	10.00 am Mon.			
<p>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).</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr I C Taylor			
Lecturer(s)/Tutor(s):	Dr I C Taylor			

IR4520 Political Islam and International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am Tue.			
<p>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 raise 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.</p>				
Programme module type:	Optional for International Relations, Middle East Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr F Volpi			
Lecturer(s)/Tutor(s):	Dr F Volpi			

International Relations - Honours Level 2012/13 - September 2012

IR4522 Critical Approaches to International Security				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm Tue.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof K M Fierke			
Lecturer(s)/Tutor(s):	Prof K M Fierke			

IR4523 The Aftermath of the Wars: Liberal Dilemmas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am Tue.			
<p>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 organised 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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof A J Williams			
Lecturer(s)/Tutor(s):	Prof A J Williams			

International Relations - Honours Level 2012/13 - September 2012

IR4525 Ethno-National Conflict in the Post-Communist Space				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	10.00 am Thu.			
This module analyses the contemporary rise of ethno-national conflicts and tension and their prevention, stalemate and resolution in the Baltic, Central and East and South-East Europe, and the Caucasus. It also gives comparative attention to the roles of major states, intergovernmental organisations and non-governmental organisations in dealing with these conflicts.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr R Fawn			
Lecturer(s)/Tutor(s):	Dr R Fawn			

IR4530 Genocide				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm Mon.			
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.				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr J P Hayden			
Lecturer(s)/Tutor(s):	Dr J P Hayden			

International Relations - Honours Level 2012/13 - September 2012

IR4532 The Cultural Politics of Human Rights				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am Thu.			
<p>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 polarising 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 organisations.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr G S Sanghera			
Lecturer(s)/Tutor(s):	Dr G S Sanghera			
IR4535 Theories of Friendship, Solidarity and Peace				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am Wed.			
<p>In political theory the concept of peace may be characterised as an umbrella of varying size. At its smallest, the umbrella only captures the bare bones of the concept: peace means absence of war and violence. As it grows in diameter, the umbrella of peace starts to include other factors: first, it captures some agreement on rules regulating conflict and disagreement, then agreement on some basic values, then the bond of solidarity, of fraternity and friendship. This module introduces students to prominent theories of peace in the western tradition and provides them with a foundation for understanding the meaning and significance of peace in different historical circumstances.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr G Slomp			
Lecturer(s)/Tutor(s):	Dr G Slomp			

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IR4536 Warmongers and Peacemakers: Religious Actors and Conflict				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am Mon.			
<p>This comparative module introduces students to the complex relationship between religion and violence by addressing the conflict and peacemaking capacities of religion and religious actors. Set in the context of theoretical approaches towards religion, politics and conflict; case studies will be examined from a wide range of geographical areas, faiths and conflict types. Conflicts with a religious element covered include those relating to political supremacy, occupation and resistance, nationalism, separation and intercommunal violence. The module also examines religious institutions and authoritarianism as well as the role of transnational religious actors regarding conflict and peace.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr F McCallum			
Lecturer(s)/Tutor(s):	Dr F McCallum			

IR4538 Identities, Belonging and Others				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	12.00 noon Tue.			
<p>The module explores the processes of collective identity formation and its role in conflict; students will analyse the processes by which individuals form group attachments and come to be recognised as belonging to a particular community. Yet these processes of demarcation also are performances of exclusion, establishing boundaries of those to be trusted and those who may be subject to violent repudiation. The module will explore conceptions of nationalism and ethnicity and how the constructions of each can lead to communal violence. Similarly students will examine modes of reproduction and transmission of class and gender identities, and how all of these fluid identities shift and realign while maintaining distinctions, designating who belongs and who is other.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J Murer			
Lecturer(s)/Tutor(s):	Dr J Murer			

International Relations - Honours Level 2012/13 - September 2012

IR4539 International Law and International Legal Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am Thu.			
<p>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.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Take-home Examination = 50%			
Module Co-ordinator:	Dr M Burgis-Kasthala			
Lecturer(s)/Tutor(s):	Dr M Burgis-Kasthala			

IR4540 The Changing Character of War				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Mon.			
<p>The aim of this module is to discuss change and continuity in the theory and practice of war. The module is organised along historical instances and phases of war over the past two decades. Starting with the French Revolutionary and Napoleonic Wars, the module will consider major events in the history of war such as the two world wars and the Cold War. It discusses to what extent terrorism and humanitarian intervention present new forms of war. Each session will analyse change and continuity regarding four thematic areas: strategic thought and practice, technology, socio-political conditions and cultural representations of war. The module is intended to give students a nuanced overview of major developments in the theory and practice of war and hence to enable them to discuss contemporary security issues from a historically well-informed perspective.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			

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IR4541 Dealing in Darkness: An Anatomy of Realism in International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am Thu.			
<p>One of the central traditions of thought in international relations is the Realist Tradition. Yet while often cited, Realism is often also caricatured or simply misunderstood on a large scale. Recently work in both international theory and intellectual history has uncovered the breadth and the depth of the Realist tradition as well as the range of views and opinions about the political world available within it. This module seeks to examine the tradition in the light of this new work, concentrating on the major thinkers of the tradition in the twentieth and twenty-first centuries.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Prof N J H Rengger			
Lecturer(s)/Tutor(s):	Prof N J H Rengger			

IR4542 Gender and Terrorism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	2.00 pm Thu.			
<p>This module will familiarise students with how gender is a construction that privileges certain actors over and against others. Bluntly, gender, similarly to race and class, is a tool for the construction and maintenance of power. Therefore, this module aims to answer, 'how does Terrorism Studies scholarship privilege certain actors?' Beginning with the assumed primacy of the state, the students will deconstruct how Terrorism Studies' reliance upon the discourse of legitimacy and rationality denies agency to certain groups and actors. Students will then evaluate how such discourse impacts the scholarship and information regarding women who are involved in political violence.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Dr C E Gentry			
Lecturer(s)/Tutor(s):	Dr C E Gentry			

International Relations - Honours Level 2012/13 - September 2012

IR4543 Activism and Resistance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	12.00 noon Thu.			
<p>This module aims to examine the many forms of activism and resistance that take place in the international system, with an emphasis upon those whose claims for agency may most often go unheard, whether for reasons of age, cause, ethnicity, gender, race, or sexuality. This module will provide both a theoretical grounding in the literatures of activism and resistance, and an empirical analysis of the acts that have taken place in their name using the so-called 'weapons of the weak'. From such acts, often everyday in character, this module will examine the significance of activism and resistance in global terms.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial per week, and occasional film/video viewing.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-Hour Written Examination = 50%			
Module Co-ordinator:	Prof A Watson			
Lecturer(s)/Tutor(s):	Prof A Watson			

IR4545 Indian Foreign Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	12.00 noon Mon.			
<p>This module is designed to provide an analysis of the emergence of India within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive and future significance. After an historical overview, the module will evaluate key factors concerning how India conducts and formulates its foreign policy (from strategic and economic factors, to its regional and multilateral interactions). This analysis will then lead to a comprehensive evaluation of India's future challenges as an emergent Asian and global power in the twenty-first century.</p>				
Programme module type:	Optional for International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr C Ogden			
Lecturer(s)/Tutor(s):	Dr C Ogden			

International Relations - Honours Level 2012/13 - September 2012

IR4546 The Psychology of International Security			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Planned timetable:	11.00 am Wed.		
<p>This module will examine the role of psychological factors as they relate to international security. The field of psychology offers sophisticated and compelling accounts of the sources of human perception and behaviour. By applying psychological theories to the context of international security, we gain new insight into long-standing security issues, such as the security dilemma, terrorism, and the calculation of risks and benefits in decisions to go to war. Particular attention will be paid to perceptions and misperceptions, security policy-making, inter-group conflict and conflict-resolution, and the role of leaders' personalities in shaping their security preferences and behaviours.</p>			
Programme module type:	Optional for International Relations		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.		
	Scheduled learning: 46 hours	Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Examination = 50%		
Module Co-ordinator:	Dr R Beasley		
Lecturer(s)/Tutor(s):	Dr R Beasley		

School of Management

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange Schemes: 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.

Management - Single Honours B.Sc. or M.A.

First Year:	40 credits: MN1001 and MN1002
Second Year:	40 credits: MN2001 and MN2002 - with mean grade 11 or better.
Third Year:	60 credits: MN3102 and MN3201 and MN3202; 60 further credits: MN3101 - MN4202 and MN4204 and MN4210 - MN4299.
Fourth Year:	20 credits: MN4203; 80 further credits in four of: MN4000 - MN4299; 20 further credits in one of: MN3101 - MN4989.

In Third and Fourth Years, 20 credits may be substituted by credits from another School or ID modules, with the permission of the Honours Adviser and the relevant Head of School.

Management - Honours Level 2012/13 - August 2012

Management - Joint Honours B.Sc. or M.A.	
(B.Sc. Honours) Management and one of: Computer Science, Economics, Geography ^T	(M.A. Honours) Management and one of: Arabic ^W , Art History, Classics, Comparative Literature, Economics, English, French ^W , Geography ^T , German ^{WG} , International Relations, Italian ^W , Middle East Studies, Modern History, Philosophy, Psychology, Russian ^{TW} , Spanish ^W
^G This combination is only available to non-beginners in German ^T Timetable clash exists - with Geography: Second level Lecture/Lab. Timetable clash means students choose non-clashing lab hours in Geography ^W Available also as 'With Integrated Year Abroad' degrees - with Russian: contact Russian for alternative class hours	
First Year: 40 credits: MN1001 and MN1002 Second Year: 40 credits: MN2001 and MN2002 - with mean grade 11 or better. Third Year: 20 credits: MN3102; 40 credits in two of: MN3101 - MN3195, MN4101- MN4195, MN4202, MN4204, MN4210 - MN4299. Fourth Year: 20 credits: MN4203; 40 further credits in two of: MN4101- MN4195, MN4202, MN4204, MN4210 - MN4299.	
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

Management - Triple Honours M.A.
Modern Languages (two languages) and Management^W The possible two language combinations are as follows: French-German ^G , French-Italian, French-Russian, French-Spanish, German-Italian ^G , German-Russian ^{GT} , German-Spanish ^G , Italian-Russian ^T , Italian-Spanish, Russian-Spanish ^T ^G This combination is only available to non-beginners in German ^T Timetable clash exists - contact Russian for alternative class hours ^W All the above are available also as 'With Integrated Year Abroad' degrees
Management element of M.A. Honours including two Modern Languages: First Year: 40 credits: MN1001 and MN1002 Second Year: 40 credits: MN2001 and MN2002 - with mean grade 11 or better. Third Year: 20 credits: MN3102; Up to 40 credits: MN3101 - MN3195, MN4101- MN4195, MN4202, MN4204, MN4210 - MN4299. Fourth Year: 20 credits: MN4203; Up to 40 further credits: MN4101- MN4195, MN4202, MN4204, MN4210 - MN4299, if necessary, to a total of between 60 and 100 credits in Management across Third and Fourth Years.
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Management Science - Single Honours B.Sc.	
First Year:	60 credits: MN1001 and MN1002 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	40 credits: MN2001 and MN2002 - with mean grade 11 or better; 60 credits: MT2001 (unless taken in First Year) and MT2004.
Third Year:	80 credits: MN3101 and MN3102 and MN3201 and MN3202; 15 credits: MT3832 or MT3833; Between 15 and 30 credits: MT3706, MT4527, MT4608 - according to availability on a 2-year cycle.
Fourth Year:	20 credits: MN4203; Further credits: MT3706 or MT4527 or MT4608 if necessary, to a total of 30 credits from these modules; 15 further credits: MT3832 or MT3833; 80 further credits: MN3101 - MN4989.
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

Management Science - Joint Honours B.Sc.	
Management Science and one of: Computer Science, Economics, Geography, Mathematics, Statistics	
First Year:	60 credits: MN1001 and MN1002 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1, otherwise MT2001 recommended in this Year.)</i>
Second Year:	40 credits: MN2001 and MN2002 - with mean grade 11 or better; 30 credits: MT2001 (unless taken in First Year, in which case MT2004 recommended).
Third Year:	40 credits: MN3101 and MN3102 15 credits: MT3832 or MT3833;
Fourth Year:	20 credits: MN4203; 15 further credits: MT3832 or MT3833; Between 20 and 40 further credits: MN4101- MN4195, MN4202, MN4204, MN4210 - MN4989.
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

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

Management - Honours Level 2012/13 - August 2012

Modules

Normally the pre-requisite(s) 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 pre-requisite(s) given.

General degree students wishing to enter 3000-level 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.

Management (MN) Modules

MN3101 Corporate Finance and Control			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Compulsory for all Management Science degrees. Optional for all Management degrees.		
Required for:	MN3116		
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus workshops and tutorials.		
	Scheduled learning: 55 hours	Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
	As used by St Andrews: Coursework = 30%, Written Examination = 70%		
Module Co-ordinator:	Dr M Clayton		
Lecturer(s)/Tutor(s):	Dr M Clayton		

MN3102 Organisation Studies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	4.00 pm - 6.00 pm			
<p>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.</p>				
Programme module type:	Compulsory for all Management degrees			
Required for:	MN4102, MN4239			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr G Greig			
Lecturer(s)/Tutor(s):	Dr G Greig, Dr P Roscoe			

MN3116 Financial Markets and Investments				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>The module is designed to give students a broad appreciation of world financial markets and the investment opportunities that lie within these markets. The module will cover major asset classes including equity, fixed income, financial derivatives and other alternative investments (e.g. hedge funds, private equity, real estate and commodities) as well as the relevant valuation techniques for these securities. Students will be introduced to regression analysis and how it can be applied in the process of investment management.</p>				
Programme module type:	Optional for all Management degrees			
Pre-requisite(s):	MN3101			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus workshops and tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			

Management - Honours Level 2012/13 - August 2012

MN3126 International Business				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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 interationalisation, 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.</p>				
Programme module type:	Optional for all Management degrees			
Anti-requisite(s):	MN4233			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar supplemented by tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Written Examination = 70%			

MN3201 Research Methods : 1				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Single Honours Management, Single Honours Management Science			
Pre-requisite(s):	Entry to a Single Honours Management or Management Science Degree			
Co-requisite(s):	MN3202	Required for:	MN4209	
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar supplemented by tutorials.			
	Scheduled learning: 47 hours		Guided independent study: 153 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof H T O Davies			
Lecturer(s)/Tutor(s):	Prof H T O Davies, Dr S Mansell			

MN3202 Research Methods : 2			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Compulsory for Single Honours Management, Single Honours Management Science		
Pre-requisite(s):	Entry to a Single Honours Management or Management Science Degree		
Co-requisite(s):	MN3201	Required for:	MN4209
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar. one-to-one supervision of research proposal formulation arranged with individual supervisors		
	Scheduled learning: 47 hours	Guided independent study: 153 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr S A Chillias		
Lecturer(s)/Tutor(s):	Team taught		

MN4102 Organisation Philosophy			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
<p>The module explores the relationship between organisation studies and philosophy mainly from a post-structural perspective. The aim is to analyse organisation as a process of becoming: becoming human; becoming social; becoming creative; becoming ethical. How can the experience of organisation and organisations become less burdensome and more creative; less demoralising (in both senses) and more charged with common purpose and enjoyment? In the course of asking these questions we revisit some traditional philosophical dualisms: nature and culture, subjectivity and objectivity, empiricism and hermeneutics; rhetoric and action; aesthetics and ethics. In each case we shall question their validity and practical value from a post-structural perspective. The course text (T Scott [2010] Organization Philosophy Palgrave Macmillan) guides the module. A wide range of additional philosophical and non-philosophical readings is provided. The module is organised into four interrelated series, each addressing a distinctive, interdisciplinary approach to organisation: philosophical anthropology; bodies, institutions and technologies; organisation being and becoming; and post-structuralism.</p>			
Programme module type:	Optional for all Management degrees		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus tutorials.		
	Scheduled learning: 48 hours	Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr J T Scott		
Lecturer(s)/Tutor(s):	Dr J T Scott		

Management - Honours Level 2012/13 - August 2012

MN4203 Dynamic Strategic Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	4.00 pm - 6.00 pm.			
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.				
Programme module type:	Compulsory for all Management degrees			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			

MN4211 International Marketing				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus tutorials.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Mr W Barlow			
Lecturer(s)/Tutor(s):	Mr W Barlow			

MN4213 Human Resource Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar plus tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr S A Chillias			
Lecturer(s)/Tutor(s):	Dr S A Chillias			

MN4214 Management of Change				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus tutorials.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Prof S Nutley			
Lecturer(s)/Tutor(s):	Prof S Nutley			

Management - Honours Level 2012/13 - August 2012

MN4223 International Banking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Fri.			
<p>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.</p>				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Written Examination = 70%			
Module Co-ordinator:	Prof J O S Wilson			
Lecturer(s)/Tutor(s):	Prof J O S Wilson			

MN4224 Consuming Culture				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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; peoples relation to the body; finally addictive consumption.</p>				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Written Examination = 70%			
Module Co-ordinator:	Dr J Desmond			
Lecturer(s)/Tutor(s):	Dr J Desmond			

MN4225 Scenario Thinking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
The module aims to provide students with a better understand the complexity of global, national or regional environments through the use of scenarios and to use the scenario process to assist creative strategy development. In addition, the module aims to use the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices.				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 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			
	Scheduled learning: 58 hours		Guided independent study: 142 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr P C Hibbert			
Lecturer(s)/Tutor(s):	Dr P C Hibbert			

MN4227 Corporate Social Responsibility, Accountability and Reporting				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Management degrees, Management Science			
Pre-requisite(s):	EITHER both MN2001 and MN2002 OR SD2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar supplemented by tutorials.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Ms L Stevenson			
Lecturer(s)/Tutor(s):	Ms L Stevenson			

Management - Honours Level 2012/13 - August 2012

MN4236 Sociology of Finance				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>In the wake of the global financial meltdown, scholars and professionals alike struggle to understand the causes of the collapse. A sociology of financial markets offers unique insights here. This module will provide a broad introduction to the sociology of finance, including: the research field and its roots in science studies; the architecture and technologies of markets; the role and importance of calculation; the chicken-and-egg problem of economic theory and practice; the specific practices of measurement and calculation that precipitated the crisis; and alternative financial perspectives, such as that offered by Islamic finance. Students will develop a deep understanding of the mechanisms that power financial markets and their relevance to the global economy.</p>				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar plus tutorials.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: Coursework = 30%, Written Examination = 70%			
Module Co-ordinator:	Dr P J Roscoe			
Lecturer(s)/Tutor(s):	Dr P J Roscoe			

MN4238 Sustainable Development and Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all Management degrees, Management Science			
Pre-requisite(s):	EITHER both MN2001 and MN2002 OR SD2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture/seminar plus tutorials.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Prof K J Bebbington			
Lecturer(s)/Tutor(s):	Team taught			

MN4241 Knowledge Work: Practice and Context				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>Knowledge work is widely regarded as desirable, the hallmark of successful economies. It is evident in a variety of work settings, for example, the professions, financial and management services, and so-called creative industries. Great efforts are made to develop and extend this form of work internationally, regardless of context. But what does knowledge work involve? How might it be understood? How might such forms of work be organised? What challenges might this entail and how might these be understood? This module explores these issues by focusing on knowledge and context from a practice perspective. The aim of the module is to offer participants some conceptual means to help them address these questions in the world of work and beyond.</p>				
Programme module type:	Optional for all Management degrees			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus workshops and tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr G Greig			
Lecturer(s)/Tutor(s):	Dr G Greig			

MN4242 Advertising and Marketing Communications				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>Advertising has an established presence in developed economies and is a key aspect of companies' marketing communications programmes. The module will extend your knowledge of this key marketing function by developing your understanding of advertising as an element in the integrated marketing communications mix and how the advertising process is practiced and managed.</p>				
Programme module type:	Optional for all Management degrees			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus fortnightly seminars.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Gilmore			
Lecturer(s)/Tutor(s):	Dr C Gilmore			

Management - Honours Level 2012/13 - August 2012

MN4263 Entrepreneurship and Small Business Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Mr C Lovatt			
Lecturer(s)/Tutor(s):	Mr C Lovatt			

MN4266 Non Governmental Organisations (NGO's): Contexts, Contributions, and Challenges				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: Seminars/lectures plus workshops.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Burt			
Lecturer(s)/Tutor(s):	Dr E Burt			

MN4267 Creative Industries				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>The module is an introduction of the management of the creative industries, that is, those industries that are characterised by the generation and exploitation of intellectual property. It traces some of their defining characteristics 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 interests; the nature of creative work and the realities of working in the creative industries. It is designed to give background information on a range of issues related to understanding creative industries.</p>				
Programme module type:	Optional for all Management degrees, Management Science			
Learning and teaching methods and delivery:	Weekly contact: Seminars and lectures.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D Stoyanova			
Lecturer(s)/Tutor(s):	Dr D Stoyanova			

MN4301 Management Project				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	0
Planned timetable:	To be arranged.			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Single Honours Management degrees, Management Science			
Pre-requisite(s):	MN3201 and MN3202		Anti-requisite(s):	MN4209
Learning and teaching methods and delivery:	Weekly contact: Supervised piece of independent study (including field work).			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project report / dissertation = 100%			
Module Co-ordinator:	Dr S A Chillias			
Lecturer(s)/Tutor(s):	Dr S A Chillias			

School of Mathematics & Statistics

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

M.Math. Honours

The general requirements are 600 credits over a period of normally five years (or four years with advanced standing credits) and in no circumstances more than six years or part-time equivalent, of which the final years form an approved Honours programme of at least 330 credits of which 120 credits are at 5000 level and at least a further 210 credits are at 3000 level and above.

Exchange scheme: In the case of students who spend part of the B.Sc./M.A. Honours programme abroad on a recognised Exchange scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Applied Mathematics - Single Honours (5-year) M.Math.

First Year: 20 credits: MT1002.

(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)

Second Year: 60 credits: MT2001 **and** MT2003 – with a pass at grade 15 or better in both.

Third, Fourth and Fifth Years:

45 credits: MT3501 **and** MT3503 **and** MT3504;

60 credits: MT3601 **and** MT4005 **and** MT4509 **and** MT4510;

Between 15 and 20 credits: MT4112 (recommended) **or** MT4111 **or** MT5611;

60 credits: MT5802, MT5806, MT5809, MT5810, MT5990;

40 credits: MT5999 (Fifth Year only);

20 further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059;

Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 360 credits across Third, Fourth and Fifth Years, except that 30 of these credits in Third or Fourth Year may be substituted by credits from another Level or School, with permission of the Adviser of Studies and any other School involved.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Applied Mathematics - Single Honours M.Math. (Fast Track)

Approved candidates will be awarded 60 advanced standing credits

First Year: 20 credits: MT1002;
30 credits: MT2001 - with a pass at grade 15 or better.

Second Year: 30 credits: MT2003 - with a pass at grade 15 or better;
30 credits: MT3501, MT3503, MT3504;
30 further credits: MT2000 - MT4999.

Third and Fourth Years:
15 further credits: MT3501 **or** MT3503 **or** MT3504;
60 credits: MT3601 **and** MT4005 **and** MT4509 **and** MT4510;
Between 15 and 20 credits: MT4112 (recommended) **or** MT4111 **or** MT5611;
60 credits: MT5802, MT5806, MT5809, MT5810, MT5990;
40 credits: MT5999 (Fifth Year only);
20 further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059;
Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 300 credits across Third and Fourth Years.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

Mathematics - Single Honours B.Sc. or M.A.

First Year: 20 credits: MT1002.
(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)

Second Year: 30 credits: MT2001 – with a pass at grade 11 or better;
At least 30 credits: MT2002 - MT2005 – with a pass at grade 11 or better in one of these.

Third and Fourth Years:
45 credits: MT3501 **and** MT3503 **and** MT3504;
15 credits: MT3600 **or** MT3601 **or** MT3606;
15 credits: MT3607 **or** MT4111 **or** MT4112;
15 credits: MT4599 (in Fourth Year only);
150 further credits: MT3000 - MT4999, except that 30 of these credits in Third Year may be substituted by credits from another Level or School, with permission of the Adviser of Studies and any other School involved.

In total, at least 210 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Mathematics - Joint Honours B.Sc. or M.A.	
<p>(B.Sc. Honours)</p> <p>Mathematics and one of: Biology, Chemistry, Computer Science, Economics, Geography, Internet Computer Science^N, Logic & Philosophy of Science, Management Science, Physics, Psychology</p> <p>^N Not available to entrants from 2011-12</p>	<p>(M.A. Honours)</p> <p>Mathematics and one of: Ancient History, Arabic^W, Art History, Biblical Studies, Classical Studies, Economics, German^W, Hebrew, International Relations, Italian^W, Latin, Mediaeval History, Modern History, Philosophy, Psychology, Russian^W, Scottish History, Spanish^W, Theological Studies</p> <p>^W Available also as 'With Integrated Year Abroad' degree</p>
<p>Mathematics element of Joint B.Sc. or M.A. Honours (except Mathematics and Physics):</p> <p>First Year: 20 credits: MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i></p> <p>Second Year: 30 credits: MT2001 – with a pass at grade 11 or better; 30 credits: MT2002 (for Pure Maths options) or MT2003 (for Applied Maths options) – with a pass at grade 11 or better.</p> <p>Third and Fourth Years:</p> <p> 30 credits: MT3501, MT3503, MT3504; 15 credits: MT3600 or MT3601; 15 credits: MT4111 or MT 4112; 15 credits: MT4599 (in Fourth Year only); 45 further credits: MT3000 - MT4999.</p> <p>In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p>	

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Mathematics – Single Honours (5-year) M.Math.

First Year: 20 credits: MT1002.
(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)

Second Year: 30 credits: MT2001 – with a pass at grade 15 or better;
60 credits: MT2002 - MT2005 – with a pass at grade 15 or better in one of these and a pass at grade 11 better in another.

Third, Fourth and Fifth Years:

45 credits: MT3501 **and** MT3503 **and** MT3504;
15 credits: MT3600 **or** MT3601 **or** MT3606;
30 credits: MT4003 - MT4004, MT4509 – MT4510, MT4606;
Between 15 and 20 credits: MT3607 **or** MT4111 **or** MT4112 **or** MT5611;
60 credits: MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830, MT5990, ID5059;
40 credits: MT5999 (Fifth Year only);
20 further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059;
Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 360 credits across Third, Fourth and Fifth Years, except that 30 of these credits in Third or Fourth Year may be substituted by credits from another Level or School, with permission of the Adviser of Studies and any other School involved.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

Mathematics - Single Honours M.Math. (Fast Track)

Approved candidates will be awarded 60 advanced standing credits

First Year: 20 credits: MT1002;
30 credits: MT2001 – with a pass at grade 15 or better.

Second Year: 60 credits: MT2002 - MT2005 – with a pass at grade 15 or better in one of these and a pass at grade 11 better in another.
30 credits: MT3501, MT3503, MT3504;
30 further credits: MT2000 – MT4999.

Third and Fourth Years:

15 further credits: MT3501 **or** MT3503 **or** MT3504;
15 credits: MT3600 **or** MT3601 **or** MT3606;
30 credits: MT4003 - MT4004, MT4509 – MT4510, MT4606;
Between 15 and 20 credits: MT3607 **or** MT4111 **or** MT4112 **or** MT5611;
60 credits: MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830, MT5990, ID5059;
40 credits: MT5999 (Fifth Year only);
20 further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059;
Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 300 credits from these ranges across Third and Fourth Years.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

Pure Mathematics – Single Honours (5-year) M.Math.

First Year: 20 credits: MT1002.
(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)

Second Year: 60 credits: MT2001 **and** MT2002 – with a pass at grade 15 or better in both.

Third, Fourth and Fifth Years: 45 credits: MT3501 **and** MT3503 **and** MT3504;
 45 credits: MT3600 **and** MT4003 **and** MT4004;
 Between 15 and 20 credits: MT4111 **or** MT4112 **or** MT5611;
 60 credits: MT5823 – MT5830, MT5990;
 40 credits: MT5999 (Fifth Year only);
 20 further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059;
 Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 360 credits across Third, Fourth and Fifth Years, except that 30 of these credits in Third or Fourth Year may be substituted by credits from another Level or School, with permission of the Adviser of Studies and any other School involved.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

Pure Mathematics – Single Honours M.Math. (Fast Track)

Approved candidates will be awarded 60 advanced standing credits

First Year: 20 credits: MT1002;
 30 credits: MT2001 – with a pass at grade 15 or better.

Second Year: 30 credits: MT2002 – with a pass at grade 15 or better
 30 credits: MT3501, MT3503, MT3504;
 30 further credits: MT2000 – MT4999.

Third and Fourth Years:
 15 further credits: MT3501 **or** MT3503 **or** MT3504;
 45 credits: MT3600 **and** MT4003 **and** MT4004;
 Between 15 and 20 credits: MT4111 **or** MT4112 **or** MT5611;
 60 credits: MT5823 – MT5830, MT5990;
 40 credits: MT5999 (Fifth Year only);
 20 further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059;
 Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 300 credits across Third and Fourth Years.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Mathematics 'with' ... - Honours B.Sc.	
(B.Sc. Honours) Mathematics with one of: French ^{W N} , German ^{W N} , Geography ^N Not available to entrants from 2008-09 ^W Available also as 'With Integrated Year Abroad' degree	(M.A. Honours) Mathematics with either Russian ^W or Spanish ^W ^W Available also as 'With Integrated Year Abroad' degree
<p>Mathematics Major element of B.Sc. or M.A. Honours 'with' degree:</p> <p>First Year: 20 credits: MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i></p> <p>Second Year: 30 credits: MT2001 – with a pass at grade 11 or better; 30 credits: MT2002 (for Pure Maths options) or MT2003 (for Applied Maths options) – with a pass at grade 11 or better.</p> <p>Third and Fourth Years: 30 credits: MT3501, MT3503, MT3504; 15 credits: MT3600 or MT3601; 15 credits: MT4111 or MT 4112; 15 credits: MT4599 (in Fourth Year only); 105 further credits: MT3000 - MT4999.</p> <p>In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p>	

Mathematics and Physics - Joint Honours B.Sc.	
<p>First Year: 60 credits: PH1011 and PH1012 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i></p> <p>Second Year: 90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 11 or better in all; 30 credits: MT2002 or MT2003 - with a pass at grade 11 or better.</p> <p>Third and Fourth Years (Maths): 30 credits in two of: MT3501, MT3503, MT3504; 15 credits: MT3600 or MT3601; 15 credits: MT4111 or MT 4112 (unless PH3080 taken); 15 credits: MT4599 (in Fourth Year only); 45 further credits: MT3000 - MT4999.</p> <p>Third Year (Physics): EITHER (if MT2003 taken in Second Year): 50 credits: PH3007 and PH3012 and PH3061 and PH3062; 10 credits: PH3080 (unless MT4111 or MT4112 taken). OR (if MT2003 not taken in Second Year): 50 credits: PH3012 and PH3061 and PH3062 and PH3081; 10 credits: PH3080 (unless MT4111 or MT4112 taken).</p> <p>Fourth Year (Physics): EITHER (if MT2003 taken in Second Year): 25 credits: PH4022 and PH4039; At least 30 further credits: AS3000-AS5999, PH3000 - PH4110, PH5000 - PH5099. OR (if MT2003 not taken in Second Year): 40 credits: PH3007 and PH4022 and PH4039; At least 15 further credits: AS3000 - AS5999, PH3000 - PH4110, PH5000 - PH5099.</p> <p>In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.</p>	

Mathematics and Theoretical Physics – Joint Honours M.Phys.

First Year:	60 credits: PH1011 and PH1012 and MT1002.
Second Year:	90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all. 30 credits: MT2002 or MT2003 - with a pass at grade 15 or better.
Third Year:	EITHER (if MT2003 taken in Second Year): 50 credits: PH3007 and PH3012 and PH3061 - PH3062; 45 credits: MT3501 and MT3504 and MT3601; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. OR (if MT2003 not taken in Second Year): 50 credits: PH3012 and PH3061 - PH3062 and PH3081; 30 credits: MT3501 and MT3504; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. 15 further credits: MT3000 - MT4598 or MT4600 - MT4699.
Fourth Year:	EITHER (if MT2003 taken in Second Year): 40 credits: PH4022 and PH 4032 and PH4039; At least 20 further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001; At least 60 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 -MT5899. OR (if MT2003 not taken in Second Year): 70 credits: MT3601 and PH3007 and PH4022 and PH4032 and PH4039; At least 45 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 - MT5899.
Fifth Year:	At least 40 credits: MT5999 or PH5102; 30 credits: PH5002 and PH5004; 15 credits: PH5003 or PH5011 or PH5012 (unless already taken in Fourth Year); At least 40 credits: MT5000 - MT5899 (unless already taken in Fourth Year); Further credits if necessary to a total of 180 across Third, Fourth and Fifth Years from 3000 - , 4000 - and 5000 - level MT modules (except that 30 further credits from MT2000 - MT2999 may be substituted).
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Mathematics and Theoretical Physics – Joint Honours M.Phys.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all. 30 credits: MT2002 or MT2003 - with a pass at grade 15 or better.
Third Year:	EITHER (if MT2003 taken in Second Year): 50 credits: PH3007 and PH3012 and PH3061 - PH3062; 45 credits: MT3501 and MT3504 and MT3601; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. OR (if MT2003 not taken in Second Year): 50 credits: PH3012 and PH3061 - PH3062 and PH3081; 30 credits: MT3501 and MT3504; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. 15 further credits: MT3000 - MT4598 or MT4600 - MT4699.
Fourth Year:	EITHER (if MT2003 taken in Second Year): 40 credits: PH4022 and PH 4032 and PH4039; At least 20 further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001; At least 60 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 -MT5899. OR (if MT2003 not taken in Second Year): 70 credits: MT3601 and PH3007 and PH4022 and PH4032 and PH4039; At least 45 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 - MT5899.
Fifth Year:	At least 40 credits: MT5999 or PH5102; 30 credits: PH5002 and PH5004; 15 credits: PH5003 or PH5011 or PH5012 (unless already taken in Fourth Year); At least 40 credits: MT5000 - MT5899 (unless already taken in Fourth Year); Further credits if necessary to a total of 180 across Third, Fourth and Fifth Years from 3000 - , 4000 - and 5000 - level MT modules (except that 30 further credits from MT2000 - MT2999 may be substituted).
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

Chemistry with Mathematics - Joint Honours M.Chem

First Year:	80 credits: CH1401 and CH1402 and CH1601 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	90 credits: CH2501 and CH2701 and MT2001 - with passes at grade 15 or better in all three; 30 credits: MT2002 (for Pure Maths options) or MT2003 (for Applied Maths options).
Third Year (Chemistry):	20 credits: CH3441; 60 credits: CH3431, CH3514, CH3512, CH3521, CH3615, CH3621, CH3712, CH3715, CH3717, CH3721;
Fourth Year (Chemistry):	40 credits: CH4442; 30 credits: CH4514, CH4515, CH4614, CH4612, CH4613, CH4714, CH4712, CH4713;
Third and Fourth Years (Maths):	30 credits: MT3501, MT3503, MT3504; 15 credits: MT3600 or MT3601; 45 further credits: MT3000 - MT4598, MT4600 - MT4999.
Fifth Year:	90 credits: CH5441 and CH5461 and CH5711 and CH5712 and CH5713 and CH5714; 30 credits: CH5511, CH5516 - CH5518, CH5611 - CH5616, CH5717 - CH5718.

Statistics - Single Honours B.Sc. or M.A.

First Year:	20 credits: MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	60 credits: MT2001 and MT2004 - with passes at grade 11 or better in both.
Third and Fourth Years:	60 credits: MT3501 and MT3606 and MT4606 and MT4607; 30 credits: MT4531, MT4608, MT4609; 15 credits: MT3607 (recommended) or MT4111 or MT4112; 15 credits: MT4599 (in Fourth Year only); 120 further credits: MT3000 - MT4999, except that 30 of these credits in Third Year may be substituted by credits from another Level or School, with permission of the Adviser of Studies and any other School involved.
In total, at least 210 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Statistics - Joint Honours B.Sc. or M.A.	
(B.Sc. Honours)	(M.A. Honours)
Statistics and one of: Biology, Computer Science, Economics, Geography, Internet Computer Science ^N , Logic & Philosophy of Science, Management Science ^N Not available to entrants from 2011-12	Statistics and either Economics or Philosophy
Statistics element of Joint Honours B.Sc. or M.A. First Year: 20 credits: MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i> Second Year: 60 credits: MT2001 and MT2004 - with passes at grade 11 or better in both. Third and Fourth Years: 30 credits: MT3501 and MT3606; 30 credits: MT3706, MT4531, MT4606 - MT4609; 15 credits: MT4599 (in Fourth Year only); 45 further credits: MT3000 - MT4999. In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

Statistics - Single Honours (5-year) M.Math.	
First Year: 20 credits: MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i> Second Year: 60 credits: MT2001 and MT2004 – with a pass at grade 15 or better in both. Third, Fourth and Fifth Years: 65 credits: MT3501 and MT3606 and MT3607 and MT5753; 15 credits: MT4527 or MT4608; 20 credits: MT5701 or MT5831; Between 25 and 40 credits: MT5751 - MT5752, MT5757, MT5758, ID5059 (i.e. at least two of these modules); 40 credits: MT5999 (Fifth Year only); Further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059, if necessary, to a total of at least 120 credits from these ranges; Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 360 credits across Third, Fourth and Fifth Years, except that 30 of these credits in Third or Fourth Year may be substituted by credits from another Level or School, with permission of the Adviser of Studies and any other School involved. In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.	

Statistics – Single Honours M.Math. (Fast Track)

Approved candidates will be awarded 60 advanced standing credits

First Year:	20 credits: MT1002; 30 credits: MT2001 – with a pass at grade 15 or better.
Second Year:	30 credits: MT2004 – with a pass at grade 15 or better 15 credits: MT3501; 15 further credits: MT3000 –MT4999.
Third and Fourth Years:	50 credits: MT3606 and MT3607 and MT5753; 15 credits: MT4527 or MT4608; 20 credits: MT5701 or MT5831; Between 25 and 40 credits: MT5751 - MT5752, MT5757, MT5758, ID5059 (i.e. at least two of these modules); 40 credits: MT5999 (Fifth Year only); Further credits: MT5000 - MT5753, MT5757 - MT5999, ID5059, if necessary, to a total of at least 120 credits from these ranges; Further credits: MT3000 - MT5753, MT5757 - MT5999, ID5059, to a total of 300 credits across Third and Fourth Years.
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.	

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

Mathematics & Statistics - Honours Level 2012/13 - September 2012

Modules

Normally the pre-requisite(s) 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 pre-requisite(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 pre-requisite for each of the following 5000-level modules is entry to the M.Phys. or M.Math. Programme(s) for which they are specified, as well as any additional specific pre-requisite(s) given.

Mathematics & Statistics (MT) Modules

MT3501 Linear Mathematics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.		
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.			
Programme module type:	Compulsory for all M.Math. programmes, B.Sc./M.A. Mathematics, B.Sc. Statistics, B.Sc. joint Honours Statistics programmes, M.Phys. Mathematics and Theoretical Physics and M.Phys. Theoretical Physics. At least two of MT3501, MT3503 and MT3504 are compulsory for all other joint Mathematics programmes (including M.Chem. Chemistry with Mathematics and B.Sc./M.A. Mathematics 'with' degrees)		
Pre-requisite(s):	MT2001		
Required for:	MT4003, MT4111, MT4513, MT4514, MT4516, MT4517, MT4519, MT4521, MT4527, MT4530, MT5827		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%		
	As used by St Andrews: Coursework = 10%, Written Examination = 90%		
Module Co-ordinator:	Dr M R Quick		
Lecturer(s)/Tutor(s):	Dr M R Quick		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT3503 Complex Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Compulsory for M.Math. Applied Mathematics, M.Math. Mathematics, M.Math. Pure Mathematics and B.Sc./M.A. Mathematics. At least two of MT3501, MT3503 and MT3504 are compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) and M.Chem. Chemistry with Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	MT2001			
Required for:	MT4005, MT4111, MT4507, MT4513, MT4514, MT4516, MT4519, MT4527, MT4530, MT4551, MT5802			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: Coursework = 10%, Written Examination = 90%			
Module Co-ordinator:	Dr M Carr			
Lecturer(s)/Tutor(s):	Dr M Carr			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT3504 Differential Equations			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri.		
<p>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.</p>			
Programme module type:	<p>Compulsory for M.Math. Applied Mathematics, M.Math. Mathematics, M.Math. Pure Mathematics, B.Sc./M.A. Mathematics, M.Phys. Mathematics and Theoretical Physics and M.Sci. Applied Quantitative Finance.</p> <p>At least two of MT3501, MT3503 and MT3504 are compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) and M.Chem. Chemistry with Mathematics.</p> <p>Optional for all other programmes in the School of Mathematics and Statistics.</p>		
Pre-requisite(s):	MT2001		
Required for:	MT4005, MT4111, MT4507, MT4508, MT4511, MT4513, MT4514, MT4516, MT4519, MT4530, MT4551		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 examples class.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100% (class test = 10%, final exam = 90%)		
Module Co-ordinator:	Prof T Neukirch		
Lecturer(s)/Tutor(s):	Prof T Neukirch		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT3600 Fundamentals of Pure Mathematics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.		
The aim of this module is to introduce the fundamental algebraic and analytic concepts in pure mathematics in the context of the number systems.			
Programme module type:	Compulsory for M.Math. Pure Mathematics. At least one of MT3600, MT3601 and MT3606 is compulsory for M.Math. Mathematics and B.Sc./M.A. Mathematics. At least one of MT3600 and MT3601 is compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) and M.Chem. Chemistry with Mathematics. Optional for all other programmes in the School.		
Pre-requisite(s):	MT2002 or (MT2001 and MT1003)		
Required for:	MT4003, MT4517, MT4521		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Prof N Ruskuc		
Lecturer(s)/Tutor(s):	Prof N Ruskuc		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT3601 Fundamentals of Applied Mathematics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.		
<p>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.</p>			
Programme module type:	<p>Compulsory for M.Math. Applied Mathematics. At least one of MT3600, MT3601 and MT3606 compulsory for M.Math. Mathematics and B.Sc./M.A. Mathematics.</p> <p>At least one of MT3600 and MT3601 compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) and M.Chem. Chemistry with Mathematics.</p> <p>Optional for all other programmes in the School.</p>		
Pre-requisite(s):	MT2001 and (MT2003 or PH3081)	Required for:	MT4509, MT4510
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Dr M Carr		
Lecturer(s)/Tutor(s):	Dr M Carr, Professor C E Parnell		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT3606 Fundamentals of Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
This module provides a bridge between second year and Honours modules in statistics. The module covers a range of fundamental statistical methodology. Topics covered include randomness and goodness-of-fit, discrete data and distributions, continuous distributions, introduction to Bayesian methods, likelihood-based methods.				
Programme module type:	Compulsory for M.Math. Statistics, B.Sc. Statistics and B.Sc./M.A. joint Honours Statistics programmes. At least one of MT3600, MT3601 and MT3606 is compulsory for M.Math. Mathematics and B.Sc./M.A. Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	MT2004			
Required for:	MT4516, MT4527, MT4530, MT4531, MT4537, MT4606, MT4609, MT5701, MT5751, MT5831			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.			
	Scheduled learning: 31 hours		Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100% (class test = 10%, final exam = 90%)			
Module Co-ordinator:	Prof S T Buckland			
Lecturer(s)/Tutor(s):	Prof S T Buckland			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT3607 Computing in Statistics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.		
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 organise electronically stored data, (2) search for patterns and meaningful relationships, (3) fit mathematical models to characterise relationships succinctly, (4) produce useful graphical and numerical summaries.			
Programme module type:	Compulsory for M.Math. Statistics and M.Sci. Applied Quantitative Finance. At least one of MT3607, MT4111, MT4112 and MT5611 is compulsory for M.Math. Mathematics. At least one of MT3607, MT4111 and MT4112 is compulsory for B.Sc./M.A. Mathematics and B.Sc. Statistics. Optional for all other programmes in the School of Mathematics and Statistics.		
Pre-requisite(s):	pre- or co-requisite MT2004		
Co-requisite(s):	pre- or co-requisite MT2004		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 practical class.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: Coursework = 60%, Written Examination = 40% (four class tests)		
Module Co-ordinator:	Dr L Thomas		
Lecturer(s)/Tutor(s):	Dr L Thomas, Dr E Rexstad		

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T3706 Markov Chains and Processes				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
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, Markovian queues.				
Programme module type:	Compulsory for M.Sci. Applied Quantitative Finance At least two from MT3706, MT4531, MT4606 - MT4609 compulsory for B.Sc./M.A. joint Honours Statistics programmes Optional for all other programmes in the School At least two from MT3706, MT4527, MT4608 compulsory for B.Sc. Management Science (single Honours).			
Pre-requisite(s):	MT2004			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 8 tutorials over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr R King			
Lecturer(s)/Tutor(s):	Dr R King			

MT3802 Numerical Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT2001	Required for:	MT5806	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, Written Examination = 80%			
Module Co-ordinator:	Dr A P Naughton			
Lecturer(s)/Tutor(s):	Dr A P Naughton, Prof C E Parnell			

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MT3832 Mathematical Programming				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Optional for all programmes in the School Compulsory for B.Sc. Management Science (single and joint Honours)			
Pre-requisite(s):	MT2001 (or MT1002 and MN2002)			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT3833 Utilities, Decisions and Inventories				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Optional for all programmes in the School. Compulsory for B.Sc. Management Science (single and joint Honours).			
Pre-requisite(s):	MT2004 or (MT2001 and MT1007) -			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

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MT4003 Groups				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu.			
<p>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.</p>				
Programme module type:	Compulsory for M.Math. Pure Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 are compulsory for M.Math. Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	MT3600 or (MT2002 and MT3501)			
Required for:	MT4521, MT5823, MT5824, MT5827, MT5829			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures, 1 tutorial and 1 examples class.			
	Scheduled learning: 45 hours		Guided independent study: 105 hours	
Assessment pattern:	As defined by QAA:			
	Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
Assessment pattern:	As used by St Andrews:			
	Written Examination = 100%			
Module Co-ordinator:	Dr M R Quick			
Lecturer(s)/Tutor(s):	Dr M R Quick			

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MT4004 Real and Abstract Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Compulsory for M.Math. Pure Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 are compulsory for M.Math. Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	MT2002, unless waived by the module co-ordinator			
Required for:	MT5825, MT5828, MT5830			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures, 1 tutorial and 1 examples class.			
	Scheduled learning: 45 hours		Guided independent study: 105 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Prof L Olsen			
Lecturer(s)/Tutor(s):	Prof L Olsen			

MT4005 Linear and Nonlinear Waves				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Compulsory for M.Math. Applied Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	(MT2003 or PH3081) and (MT3503 or MT3504)			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr A N Wright			
Lecturer(s)/Tutor(s):	Dr A N Wright			

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MT4111 Symbolic Computation			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri.		
<p>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.</p>			
Programme module type:	<p>At least one of MT4111, MT4112 and MT5611 compulsory for M.Math. Applied Mathematics and M.Math. Pure Mathematics</p> <p>At least one of MT3607, MT4111, MT4112 and MT5611 compulsory for M.Math. Mathematics</p> <p>At least one of MT3607, MT4111 and MT4112 compulsory for B.Sc./M.A. Mathematics and B.Sc./M.A. Statistics</p> <p>At least one of MT4111 and MT4112 compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees)</p> <p>Optional for all other programmes in the School</p>		
Pre-requisite(s):	MT3501 or MT3503 or MT3504	Anti-requisite(s):	MT5611
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 practical session		
	Scheduled learning: 35 hours		Guided independent study: 115 hours
Assessment pattern:	As defined by QAA:		
	Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
Assessment pattern:	As used by St Andrews:		
	Coursework = 30%, Written Examination = 70%		
Module Co-ordinator:	Dr J D Mitchell		
Lecturer(s)/Tutor(s):	Dr J D Mitchell, Dr M Neunhoeffer, Dr C M Roney-Dougal		

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MT4112 Computing in Mathematics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2013/4		
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu.		
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.			
Programme module type:	<p>At least one of MT4111, MT4112 and MT5611 compulsory for M.Math. Applied Mathematics and M.Math. Pure Mathematics</p> <p>At least one of MT3607, MT4111, MT4112 and MT5611 compulsory for M.Math. Mathematics</p> <p>At least one of MT3607, MT4111 and MT4112 compulsory for B.Sc./M.A. Mathematics and B.Sc./M.A. Statistics</p> <p>At least one of MT4111 and MT4112 compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees)</p> <p>Optional for all other programmes in the School</p>		
Pre-requisite(s):	either pre- or co-requisites MT3501, MT3503 or MT3504	Anti-requisite(s):	MT5612, Honours or Joint Honours Programme in Computer Science.
Co-requisite(s):	either pre- or co-requisites MT3501, MT3503 or MT3504	Required for:	MT5806
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures.		
	Scheduled learning: 25 hours	Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
	As used by St Andrews: Coursework: Project = 30%, Written Examination = 70%		
Module Co-ordinator:	Dr S J Brooks		
Lecturer(s)/Tutor(s):	Dr S J Brooks		

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MT4501 Topics in the History of Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	either pre- or co-requisites - MT3501, MT3503, MT3504, MT3506	Anti-requisite(s):	MT5613	
Co-requisite(s):	either pre- or co-requisites - MT3501, MT3503, MT3504, MT3506			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework: Project = 50%, Written Examination = 50% (2 class tests)			
Module Co-ordinator:	Dr C M Roney-Dougal			
Lecturer(s)/Tutor(s):	Dr C M Roney-Dougal, Dr C P Bleak, Prof E F Robertson, Dr J J O'Connor			

MT4507 Classical Mechanics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	(MT2003 or PH3081) and (MT3503 or MT3504)			
Required for:	PH4032, PH5004			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Prof T Neukirch			
Lecturer(s)/Tutor(s):	Prof T Neukirch			

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MT4508 Dynamical Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
	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.			
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT3504			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Prof T Neukirch			
Lecturer(s)/Tutor(s):	Prof T Neukirch			

MT4509 Fluid Dynamics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
	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.			
Programme module type:	Compulsory for M.Math. Applied Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 compulsory for M.Math. Mathematics. Optional for all other programmes in the School			
Pre-requisite(s):	MT3601	Required for:	MT5809	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100% (class test = 10%, final exam = 90%)			
Module Co-ordinator:	Prof D G Dritschel			
Lecturer(s)/Tutor(s):	Prof D G Dritschel			

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MT4510 Solar Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Compulsory for M.Math. Applied Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 compulsory for M.Math. Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	MT3601	Anti-requisite(s):	MT4504, MT5804	
Required for:	MT5810			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr I De Moortel			
Lecturer(s)/Tutor(s):	Dr I De Moortel			

MT4511 Asymptotic Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu.			
This module is designed to introduce students to asymptotic methods used in the construction of analytical approximations to integrals and solutions of differential equations.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT3504			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr S King			
Lecturer(s)/Tutor(s):	Dr S King			

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MT4513 Fractal Geometry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT3501 or MT3503 or MT3504	Anti-requisite(s):	MT5813	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Prof K J Falconer			
Lecturer(s)/Tutor(s):	Prof K J Falconer			

MT4514 Graph Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Optional for all programmes in the School.			
Pre-requisite(s):	MT3501 or MT3503 or MT3504			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

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MT4515 Functional Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.			
	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.			
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT2002, unless waived by the module co-ordinator			
Required for:	MT5830			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Prof K J Falconer			
Lecturer(s)/Tutor(s):	Prof K J Falconer			

MT4516 Finite Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
	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.			
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	either pre- or co-requisites - one of MT3501, MT3503, MT3504, MT3606			
Co-requisite(s):	either pre- or co-requisites - one of MT3501, MT3503, MT3504, MT3606	Required for:	MT5826	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C M Roney-Dougal			
Lecturer(s)/Tutor(s):	Dr C M Roney-Dougal			

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MT4517 Rings and Fields				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
	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.			
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT3600 or (MT2002 and MT3501)			
Required for:	MT5823, MT5826, MT5827, MT5829			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr M Neunhoeffler			
Lecturer(s)/Tutor(s):	Dr M Neunhoeffler, Dr J D Mitchell			

MT4519 Number Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
	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.			
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	one of MT3501, MT3503, MT3504			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

MT4526 Topology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
<p>This module introduces the ideas of metric and topological spaces. A metric space is simply a set together with a 'distance' between any two points. This idea is pervasive in mathematics: from situations such as the usual distance in n-dimensional space, to the Hamming distance between words in an error-correcting code and the distance between functions approximating a given function. Metric spaces can be thought of as particular instances of topological spaces, where the fundamental concept is that of points being 'close' to each other rather than the precise distance between points. Topological spaces are a powerful generalisation of metric spaces, and have had a profound influence in the development of mathematics. Many examples of metric spaces and topological spaces will be introduced and fundamental ideas within topology will be discussed, including separation axioms, compactness and connectedness.</p>				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT2002 or MT3600 or MT4004	Anti-requisite(s):	MT4521	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell			

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MT4527 Forecasting				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	MT4527 or MT4608 is compulsory for M.Math. Statistics. Optional for all other programmes in the School. At least two from MT3706, MT4527, MT4608 compulsory for B.Sc. Management Science (single Honours).			
Pre-requisite(s):	MT2004 together with either (one of MT3501, MT3503, MT3606) or any MN3000 module.			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr M Papathomas			
Lecturer(s)/Tutor(s):	Dr M Papathomas			

MT4530 Population Genetics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT2004 and one of MT3501, MT3503, MT3504, MT3606			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

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MT4531 Bayesian Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	At least two of MT4531, MT4608 and MT4609 compulsory for B.Sc. Statistics. At least two from MT3706, MT4531, MT4606 - MT4609 compulsory for B.Sc./M.A. joint Honours Statistics programmes. Optional for all other programmes in the School.			
Pre-requisite(s):	MT3606	Anti-requisite(s):	MT5831	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 8 tutorials/practical classes over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, Written Examination = 80%			
Module Co-ordinator:	Dr R King			
Lecturer(s)/Tutor(s):	Dr R King, Dr M Papathomas			

MT4537 Spatial Processes				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	Optional for all programmes in the School			
Pre-requisite(s):	MT3606	Anti-requisite(s):	MT4536	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 4 tutorials over the semester.			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr J B Illian			
Lecturer(s)/Tutor(s):	Dr J B Illian			

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MT4551 Financial Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	Compulsory for M.Sci. Applied Quantitative Finance. Optional for all other programmes in the School of Mathematics and Statistics.			
Pre-requisite(s):	MT2001, (MT1007 or MT2004 or EC2003) and (MT3503 or MT3504)			
Required for:	MT5812			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr D H Mackay			
Lecturer(s)/Tutor(s):	Dr D H Mackay			

MT4599 Project in Mathematics / Statistics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2012/3			
Planned timetable:	none			
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.				
Programme module type:	Compulsory for B.Sc./M.A. Mathematics, B.Sc./M.A. Statistics, all B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) and all B.Sc./M.A. joint Honours Statistics programmes			
Learning and teaching methods and delivery:	Weekly contact: Typically and on average, 20 mins of project supervisions per week over whole year.			
	Scheduled learning: 8 hours		Guided independent study: 142 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework: Project = 100%			
Module Co-ordinator:	Prof K J Falconer			

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MT4606 Statistical Inference			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2013/4		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.		
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 Cramer-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets.			
Programme module type:	Compulsory for B.Sc./M.A. Statistics At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 compulsory for M.Math. Mathematics At least two from MT3706, MT4531, MT4606 - MT4609 compulsory for B.Sc./M.A. joint Honours Statistics programmes Optional for all other programmes in the School		
Pre-requisite(s):	MT3606	Anti-requisite(s):	MT3701, MT5701
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Dr I B J Goudie		
Lecturer(s)/Tutor(s):	Dr I B J Goudie		

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MT4607 Generalised Linear Models and Data Analysis			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2012/3		
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu.		
This module aims to demonstrate the power and elegance of unifying a large number of simple statistical models within the general framework of the generalised 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.			
Programme module type:	Compulsory for B.Sc./M.A. Statistics. At least two from MT3706, MT4531, MT4606 - MT4609 compulsory for B.Sc./M.A. joint Honours Statistics programmes. Optional for all other programmes in the School		
Pre-requisite(s):	MT2004 and either pre- or co-requisite MT3501	Anti-requisite(s):	MT5753
Co-requisite(s):	or pre-requisite MT3501	Required for:	MT5757
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 8 tutorials over the semester		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: Coursework: Project = 20%, Written Examination = 80%		
Module Co-ordinator:	Dr A Overstall		
Lecturer(s)/Tutor(s):	Dr A Overstall		

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MT4608 Sampling Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
<p>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.</p>				
Programme module type:	<p>MT4527 or MT4608 is compulsory for M.Math. Statistics. At least two of MT4531, MT4608 and MT4609 are compulsory for B.Sc. Statistics. At least two from MT3706, MT4531, MT4606 - MT4609 are compulsory for B.Sc./M.A. joint Honours Statistics programmes. Optional for all other programmes in the School. At least two from MT3706, MT4527, MT4608 are compulsory for B.Sc. Management Science (single Honours)</p>			
Pre-requisite(s):	<p>MT2004 and either pre or co-requisite: One of MT3501, MT3503, MT3504, MT3606 or any 3000-level MN module -</p>			
Co-requisite(s):	<p>either pre or co-requisite: One of MT3501, MT3503, MT3504, MT3606 or any 3000-level MN module</p>			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 8 tutorials over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: Coursework: Project = 15%, Written Examination = 85%			
Module Co-ordinator:	Dr J B Illian			
Lecturer(s)/Tutor(s):	Dr J B Illian, Dr L Thomas			

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MT4609 Multivariate Analysis			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri		
<p>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.</p>			
Programme module type:	<p>At least two of MT4531, MT4608 and MT4609 are compulsory for B.Sc. Statistics.</p> <p>At least two from MT3706, MT4531, MT4606 - MT4609 are compulsory for B.Sc./M.A. joint Honours Statistics programmes.</p> <p>Optional for all other programmes in the School.</p>		
Pre-requisite(s):	MT3606-		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Dr I B J Goudie		
Lecturer(s)/Tutor(s):	Dr I B J Goudie		

MT5611 Advanced Symbolic Computation				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2012/3			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri.			
<p>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.</p>				
Programme module type:	<p>At least one of MT4111, MT4112 and MT5611 compulsory for M.Math. Applied Mathematics and M.Math. Pure Mathematics.</p> <p>At least one of MT3607, MT4111, MT4112 and MT5611 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	at least one MT4000-level module			
Anti-requisite(s):	MT4111			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 practical session.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA:			
	Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
Assessment pattern:	As used by St Andrews:			
	Coursework: Project = 45%, Written Examination = 55%			
Module Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell, Dr M Neunhoeffer, Dr C M Roney-Dougal			

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MT5701 Advanced Statistical Inference			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2013/4		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.		
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 Cramer-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets.			
Programme module type:	MT5701 or MT5831 is compulsory for M.Math. Statistics Optional for all other undergraduate programmes in the School.		
Pre-requisite(s):	MT3606 and any MT4000-level module,		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 0.5 tutorial.		
	Scheduled learning: 30 hours	Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework: Project = 25%, Written Examination = 75%		
Module Co-ordinator:	Dr I B J Goudie		
Lecturer(s)/Tutor(s):	Dr I B J Goudie		

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MT5751 Estimating Animal Abundance				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2012/3			
Planned timetable:	2.00 pm			
<p>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.</p>				
Programme module type:	<p>At least two of MT5751, MT5752, MT5757, MT5758 and MT5759 compulsory for M.Math. Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional module for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3606 and any MT4000-level module-			
Learning and teaching methods and delivery:	Weekly contact: 7 hours of lectures and 5 hours of practical classes per week for 2 weeks.			
	Scheduled learning: 24 hours		Guided independent study: 76 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 67%, Practical Examinations = 0%, Coursework = 33%			
	As used by St Andrews: Coursework = 33%, Written Examination = 67%			
Module Co-ordinator:	Dr E Rexstad			
Lecturer(s)/Tutor(s):	Dr E Rexstad			

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MT5753 Statistical Modelling			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Planned timetable:	2.00 pm		
<p>This module will introduce the main ideas of linear and generalised linear statistical modelling and will provide training in applied statistical modelling. The module 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; generalised 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.</p>			
Programme module type:	<p>Compulsory module for M.Math. Statistics. At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional module for all other undergraduate programmes in the School.</p>		
Pre-requisite(s):	at least one MT4000-level module	Anti-requisite(s):	MT4607
Required for:	MT5755, MT5757		
Learning and teaching methods and delivery:	Weekly contact: 6 hours lectures, 1.5 hours tutorials and 6 hours practicals each week for 4 weeks.		
	Scheduled learning: 54 hours	Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr M L MacKenzie		
Lecturer(s)/Tutor(s):	Dr M L MacKenzie, Miss L Scott-Hayward		

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MT5757 Advanced Data Analysis				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2012/3			
Planned timetable:	10.00 am Mons (even weeks), Tue and Thu.			
<p>This module covers modern modelling methods for situations where the data fails to meet the assumptions of common statistical models and simple remedies do not suffice. This represents a lot of real world data. Methods covered include: nonlinear models; basic splines and Generalised Additive Models; Ridge Regression and Principal Components Regression; models for non-independent errors and random effects. 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.</p>				
Programme module type:	<p>At least two of MT5751, MT5752, MT5757, MT5758 and MT5759 compulsory for M.Math. Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4607 or MT5753			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 8 tutorials over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr D L Borchers			
Lecturer(s)/Tutor(s):	Dr D L Borchers, Dr M L MacKenzie			

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MT5758 Applied Multivariate Analysis			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2012/3		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.		
<p>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.</p>			
Programme module type:	<p>At least two of MT5751, MT5752, MT5757, MT5758 and MT5759 compulsory for M.Math. Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>		
Pre-requisite(s):	Acceptance on to M.Math. Statistics or M.Math. Mathematics programmes, or taught postgraduate programme.		
Anti-requisite(s):	MT4609		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week, and 4 tutorials and 4 project group meetings over the semester.		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, Written Examination = 50%		
Module Co-ordinator:	Dr J B Illian		
Lecturer(s)/Tutor(s):	Dr J B Illian		

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MT5802 Advanced Analytical Techniques				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2012/3			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	<p>At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3503			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA:			
	Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
Assessment pattern:	As used by St Andrews:			
	Written Examination = 100%			
Module Co-ordinator:	Dr C V Tran			
Lecturer(s)/Tutor(s):	Dr C V Tran			

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MT5806 Advanced Computational Techniques				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2012/3			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.			
This module introduces students to some of the ideas, techniques and constraints that underpin modern approaches to the numerical modeling 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.				
Programme module type:	<p>At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3802 and MT4112			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and a typical average of 0.5 hours of project supervisions.			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr S J Brooks			
Lecturer(s)/Tutor(s):	Dr S J Brooks			

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MT5809 Advanced Fluid Dynamics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
<p>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.</p>				
Programme module type:	<p>At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4509			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr J N Reinaud			
Lecturer(s)/Tutor(s):	Dr J N Reinaud			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5810 Advanced Solar Theory			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu.		
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.			
Programme module type:	At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics. At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional for all other undergraduate programmes in the School.		
Pre-requisite(s):	MT4510	Anti-requisite(s):	MT5804
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.		
	Scheduled learning: 35 hours		Guided independent study: 165 hours
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Prof A W Hood		
Lecturer(s)/Tutor(s):	Prof A W Hood		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5812 Advanced Financial Mathematics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Planned timetable:	2.00 pm Tue and Fri.			
	<p>This module builds on the theory that has been taught in MT4551 by introducing further analytical and practical techniques that are used in the valuation and risk-management of all the mainstream vanilla and exotic derivatives in the Equity, Foreign Exchange, Fixed Income and Credit Markets. The focus will be on both understanding the theory as well as how it is applied in the real world environment of a derivatives trading desk. By means of lectures and practical assignments, students will also be introduced to Excel and the Visual Basic Programming language (as a working knowledge of these will be invaluable to anyone seeking a career in the areas of finance or business).</p>			
Programme module type:	Optional for all programmes in the School of Mathematics and Statistics.			
Pre-requisite(s):	MT4551			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 tutorial.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination = 50%			
Module Co-ordinator:	Dr W R Campbell			
Lecturer(s)/Tutor(s):	Dr W R Campbell			

MT5823 Semigroups				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri.			
	<p>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.</p>			
Programme module type:	<p>At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics</p> <p>Optional for all other undergraduate programmes in the School</p>			
Pre-requisite(s):	MT4003 or MT4517		Anti-requisite(s):	MT4523
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures, 1 tutorial and 1 examples class.			
	Scheduled learning: 45 hours		Guided independent study: 155 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Prof N Ruskuc			
Lecturer(s)/Tutor(s):	Prof N Ruskuc			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5824 Topics in Groups			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.		
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.			
Programme module type:	At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional for all other undergraduate programmes in the School.		
Pre-requisite(s):	MT4003, unless you are on a taught postgraduate programme.		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures, 1 tutorial and 1 examples class.		
	Scheduled learning: 45 hours	Guided independent study: 155 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Dr C P Bleak		
Lecturer(s)/Tutor(s):	Dr C P Bleak		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5825 Measure and Ergodic Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT4004, unless you are on a taught postgraduate programme			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr M J Todd			
Lecturer(s)/Tutor(s):	Dr M J Todd			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5826 Finite Fields				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2012/3			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
<p>Fields are an important part of modern algebra. Introduced as a generalisation 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 specialising to finite fields in particular. Applications of field theory, to topics such as geometry and finite mathematics, will also be explored.</p>				
Programme module type:	<p>At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4516 or MT4517			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA:			
	Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
Assessment pattern:	As used by St Andrews:			
	Written Examination = 100%			
Module Co-ordinator:	Dr M Neunhoeffler			
Lecturer(s)/Tutor(s):	Dr M Neunhoeffler			

MT5827 Lie Algebras				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics Optional for all other undergraduate programmes in the School			
Pre-requisite(s):	MT3501 and (MT4003 or MT4517)			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Neunhoeffler			
Lecturer(s)/Tutor(s):	Dr M Neunhoeffler			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5830 Topics in Geometry and Analysis			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2012/3		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.		
<p>The module will present new developments in geometry and analysis that relate to research interests in St Andrews. Building on 4000-level modules in analysis, it will introduce students to advanced results in this beautiful and important area of mathematics. The choice of specific topics may vary from year to year but will be chosen from Geometric Measure Theory, Non-commutative Geometry, Fuchsian Groups, Harmonic Analysis, and Measurable Dynamics.</p>			
Programme module type:	<p>At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>		
Pre-requisite(s):	MT4004 or MT4515	Anti-requisite(s):	MT5828
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and 1 tutorial.		
	Scheduled learning: 35 hours	Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Written Examination = 100%		
Module Co-ordinator:	Prof L Olsen		
Lecturer(s)/Tutor(s):	Prof L Olsen		

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5831 Advanced Bayesian Inference				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu.			
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.				
Programme module type:	MT5701 or MT5831 is compulsory for M.Math. Statistics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3606	Anti-requisite(s):	MT4531	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures per week and 8 tutorials/practical classes over semester.			
	Scheduled learning: 33 hours		Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr R King			
Lecturer(s)/Tutor(s):	Dr R King, Dr M Papathomas			

MT5990 Independent Study Module				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	Either
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics. At least three from MT5823 - MT5830 and MT5990 compulsory for M.Math. Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT5757 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional for M.Math. Statistics and M.Phys. Mathematics and Theoretical Physics.			
Pre-requisite(s):	Permission from the Head of School			
Learning and teaching methods and delivery:	Weekly contact: Typically 1 hour project supervisions.			
	Scheduled learning: 12 hours		Guided independent study: 188 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr M R Quick			

Mathematics & Statistics - Honours Level 2012/13 - September 2012

MT5991 Professional Skills for Mathematical Scientists				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	In exceptional circumstances and with the approval of the Head of School, optional for final year of M.Math. Programme.			
Learning and teaching methods and delivery:	Weekly contact: Varies. Typically 1 project supervision per week over whole year.			
	Scheduled learning: 24 hours		Guided independent study: 276 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof T Neukirch			

MT5999 Advanced Project in Mathematics / Statistics				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for M.Math. Applied Mathematics, M.Math. Mathematics, M.Math. Pure Mathematics and M.Math. Statistics. Either MT5999 or PH5102 is compulsory for M.Phys. Mathematics and Theoretical Physics.			
Pre-requisite(s):	Entry to an M.Phys. or M.Math. programme			
Learning and teaching methods and delivery:	Weekly contact: Typically and on average, 40 mins of project supervisions per week over whole year			
	Scheduled learning: 16 hours		Guided independent study: 384 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project = 100%			
Module Co-ordinator:	Prof K J Falconer			

School of Medicine

B.Sc. Honours in Medicine

The general requirements are 480 credits over a period of no more than four years from the date of first matriculation, of which the final two years form an approved Honours programme of 240 credits, of which 120 credits are at 3000 level and 120 credits at 4000 level. Direct entry into second level is the normal route of entry in which case 120 credits of advanced standing will be given by the Dean, with advice from the Faculty Executive Group, to approved candidates.

All those who graduate with 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 MB ChB after three years of clinical studies.

Medicine - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	120 credits: MD2001 and MD2002.
Third Year:	120 credits: MD3001 and MD3002.
Fourth Year:	120 credits: MD4001 and MD4002 and MD4003.

MD3001 Medicine: Honours 1 (Cardiovascular and Respiratory Systems)

SCOTCAT Credits:	60	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Available only to students enrolled in the B.Sc. Honours Medicine programme.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for B.Sc. Honours Medicine			
Pre-requisite(s):	MD2001 and MD2002			
Required for:	MD4001, MD4002, MD4003			
Learning and teaching methods and delivery:	Weekly contact: 10 Lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings Up to 6 hours per week of directed self-learning.			
	Scheduled learning: 304 hours		Guided independent study: 296 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework comprised of two written examinations totaling 25% of the module grade; Attainment of competence in clinical skills appropriate for this module (Pass/Fail). Module Examinations comprised of two written examinations totaling 75% of the module grade			
Module Co-ordinator:	Dr A Fleet and Dr W Dhaliwal			

Medicine - Honours Level 2012/13 - August 2012

MD3002 Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)			
SCOTCAT Credits:	60	SCQF Level 9	Semester: 2
Planned timetable:	To be arranged.		
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.			
Programme module type:	Compulsory for B. Sc Honours Medicine		
Pre-requisite(s):	MD2001 and MD2002		
Required for:	MD4001, MD4002, MD4003		
Learning and teaching methods and delivery:	Weekly contact: 10 Lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning.		
	Scheduled learning: 258 hours	Guided independent study: 342 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework comprised of two written examinations totaling 25% of the module grade; Attainment of competence in clinical skills appropriate for this module (Pass/Fail). Module Examinations comprised of two written examinations totaling 75% of the module grade		
Module Co-ordinator:	Dr J P Issberner, Dr A Laidlaw		

MD4001 Medicine: Honours 3 (Central Nervous System and Endocrine System)			
SCOTCAT Credits:	60	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to students enrolled in the B.Sc. Honours Medicine programme.		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Compulsory for B.Sc Honours Medicine		
Pre-requisite(s):	MD3001 and MD3002		
Learning and teaching methods and delivery:	Weekly contact: 10 Lectures and 6 hours of seminars/tutorials/practicals each week Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning.		
	Scheduled learning: 304 hours	Guided independent study: 296 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework comprised of two written examinations totaling 25% of the module grade; Attainment of competence in clinical skills appropriate for this module (Pass/Fail). Module Examinations comprised of two written examinations totaling 75% of the module grade		
Module Co-ordinator:	Dr J P Issberner, Dr R Davies		

Medicine - Honours Level 2012/13 - August 2012

MD4002 Medicine: Honours 4 (Student-selected component)			
SCOTCAT Credits:	40	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Availability restrictions:	Available only to students enrolled in the B.Sc. Honours Medicine programme.		
Planned timetable:	To be arranged.		
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			
Programme module type:	Compulsory for B.Sc Honours Medicine		
Pre-requisite(s):	MD3001 and MD3002		
Learning and teaching methods and delivery:	Weekly contact: To be arranged.		
	Scheduled learning: 0 hours	Guided independent study: 400 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 10%, Coursework = 0%		
	As used by St Andrews: Scientific research or library project assessed by dissertation (90%) and oral presentation (10%).		
Module Co-ordinator:	Prof L S Kent, Dr R Davies		

MD4003 Medicine: Honours 5 (Applied Medical Science)			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 2
Availability restrictions:	Available only to students enrolled in the B.Sc. Honours Medicine programme.		
Planned timetable:	To be arranged.		
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			
Programme module type:	Compulsory for B.Sc Honours Medicine		
Pre-requisite(s):	MD3001 and MD3002		
Learning and teaching methods and delivery:	Weekly contact: To be arranged.		
	Scheduled learning: 48 hours	Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)		
Module Co-ordinator:	Dr P Bjelogrljic, Dr E Sinclair		

School of Modern Languages

Including Arabic, Comparative Literature, French, German, Italian, Linguistics, Russian and Spanish

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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 1.4).

Arabic – Joint Honours M.A.

Arabic and one of: Art History (European & North American Art), Comparative Literature, Economics, English, Film Studies, French^w, German^w, Hebrew, International Relations, Italian^w, Latin, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Russian^w, Social Anthropology, Spanish^w.

^w Available also as 'With Integrated Year Abroad' degree although at present only with a placement through the other language subject.

First Year: 40 credits: AR1001 **and** AR1002.

Second Year: 20 credits: AR2001;
20 credits: AR2002 - with a pass at grade 11 or better.

Third Year: 30 credits: AR3201 **or** AR3301 (or equivalent approved Study Abroad);
30 further credits: AR3200 - AR3999.

Fourth Year: 60 credits: AR4200 - AR4999.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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 above).

Modern Languages - Honours Level 2012/13 - August 2012

Arabic (Modern Languages Triple Subject) - Honours M.A.

Arabic and two of: Comparative Literature, French, German, Italian, Russian, Spanish

All the above (except Comparative Literature) are available also as 'With Integrated Year Abroad' degrees although at present only with a placement through the other language subject.

Arabic element of Triple Subject Honours M.A.

(where the other two subjects are both from the School of Modern Languages):

First Year: 40 credits: AR1001 **and** AR1002.

Second Year: 20 credits: AR2001;
20 credits: AR2002 - with a pass at grade 11 or better.

Third Year: 30 credits: AR3401 **and** AR3402 (or equivalent approved Study Abroad);
Up to 60 credits: AR3420 - AR3499.

Fourth Year: 30 credits: AR4401 **and** AR4402;
Further credits: AR4420 - AR4499, AR4999, if necessary, to a total of between 60 and 120 credits in Arabic across Third and Fourth Years

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level and between 150 and 180 credits in Third and Fourth Years from the two subjects in the School of Modern Languages.

Across Third and Fourth Years, if more than 15 optional credits are taken (other than AR4999), at least 15 credits must be taken from (AR3420 – AR3459, AR4420 - AR4459) and at least 15 credits from (AR3460 – AR3499, AR4460 – AR 4499).

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

Arabic and one of: Comparative Literature, French, German, Italian, Russian, Spanish
and one of: Ancient History, Classical Studies⁶, English, International Relations, Latin, Management
All the above (except Comparative Literature) are available also as 'With Integrated Year Abroad' degrees although at present only with a placement through the other language subject.
⁶ Arabic and German and Classical Studies is not available due to a timetable clash with German

Arabic element of M.A. Triple Subject Honours

(where one of the other two subjects is not from the School of Modern Languages:

First Year: 40 credits: AR1001 **and** AR1002.

Second Year: 20 credits: AR2001;

20 credits: AR2002 - with a pass at grade 11 or better.

Third Year: 30 credits: AR3401 **and** AR3402 (or equivalent approved Study Abroad);

Up to 30 credits: AR3420 - AR3499.

Fourth Year: 30 credits: AR4401 **and** AR4402;

Further credits: AR4420 - AR4499, AR4999, if necessary, to a total of between 60 and 90 credits in Arabic across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level and between 150 and 180 credits in Third and Fourth Years from the two subjects in the School of Modern Languages.

Across Third and Fourth Years, if more than 15 optional credits are taken (other than AR4999), at least 15 credits must be taken from (AR3420 – AR3459, AR4420 - AR4459) and at least 15 credits from (AR3460 – AR3499, AR4460 – AR 4499).

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

... with Arabic - Honours B.Sc.

Biology with Arabic

Arabic minor element of B.Sc. Honours Biology with Arabic:

First Year: 40 credits: AR1001 and AR1002.

Second Year: 20 credits: AR2001;
20 credits: AR2002 - with a pass at grade 11 or better.

*Third Year: 30 credits: AR3401 and AR3402.

*Fourth Year: 30 credits: AR4401 and AR4402.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

*New modules available from 2013-14.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Arabic & Middle East Studies – Single Honours M.A.

(not available to entrants after 2010-11)

Fourth Year: 30 credits: AR4201 - AR4989;
60 further credits: AR4201 - AR4989; IR4506, IR4507, IR4510, IR4520, ME4850 - ME4895, MO4850 - MO4895 (AR4999 or IR4099 or HI4999);
Further credits: AR3201 - AR3999, IR3109, ME3160 - ME3199, ME3601 - ME3699, MO3080 - MO3095, MO3180 - MO3195, MO3280 - MO3295, MO3380 - MO3395, MO3480 - MO3495, MO3580 - MO3595, MO3780 - MO3795, AR4201 - AR4989, IR4506, IR4507, IR4510, IR4520, ME4850 - ME4895, MO4850 - MO4895, if necessary, to a total of at least 210 credits in 3000- and 4000- level modules.

Comparative Literature - Joint Honours M.A.

Comparative Literature and one of: Ancient History, Arabic, Art History, Biblical Studies, Classical Studies, Classics, English, Film Studies, French ^W, Geography, German ^W, Greek, Hebrew, International Relations, Italian ^W, Latin, Management, Mediaeval History, Modern History, Philosophy, Russian ^W, Social Anthropology, Spanish ^W

^W Available also as 'With Integrated Year Abroad' degree

Comparative Literature Element of Joint Honours M.A.

First Year: 40 credits: CO1001 and CO1002.

Second Year: 20 credits: CO2001;
20 credits: CO2002 - with a pass at grade 11 or better.

Third Year: 30 credits: CO3000 - CO3019;
30 credits: CO3020 - CO3049.

Fourth Year: 30 credits: CO4000 - CO4019;
30 further credits: CO3020 - CO3049, CO4020 - CO4049

In total, at least 210 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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.

Comparative Literature - Triple Honours M.A.

Comparative Literature and two of: Arabic, French, German, Italian, Russian, Spanish

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

Comparative Literature Element of M.A. Triple Subject Honours:

First Year: 40 credits: CO1001 **and** CO1002.

Second Year: 20 credits: CO2001;

20 credits: CO2002 - with a pass at grade 11 or better.

Third Year: 30 credits: CO3000 - CO3019;

Up to 30 credits: CO3020 - CO3049.

Fourth Year: 30 credits: CO4000 - CO4019;

Up to 30 further credits: CO3020 - CO3049, CO4020 - CO4049.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level. A minimum of 60 credits and a maximum of 120 credits may be chosen from each subject.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Though not part of the Comparative Literature requirement, the WIYA (5 year) versions of these degrees will necessarily require a year spent abroad according to the programme requirements detailed for the language studied (see French, German, Italian, Russian or Spanish).

French - Single Honours M.A.

Available also as a 'With Integrated Year Abroad' degree.

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 30 credits: FR2031;

30 credits: FR2032 - with a pass at grade 11 or better.

[WIYA only: 60 credits: FR3101].

Third Year: 30 credits: FR3001 **and** FR3002;

45 credits in three of: FR3010 - FR3099;

45 further credits in three of: FR3010 - FR3099, FR4000 - FR4189;

Fourth Year: 30 credits: FR4105 **and** FR4106;

Further credits: FR3010 - FR3099, FR3103, FR4000 - FR4199, to a total of 240 credits across Third and Fourth Years, with at least 90 of these credits at 4000-level.

Students in Third or Fourth Year may, with permission of the Heads of School concerned, substitute up to 30 3000- or 4000-level credits in another subject for 3000- or 4000-level credits in French.

One year may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

French - Joint Honours M.A.

French and one of: Arabic, Comparative Literature, German, Italian, Russian, Spanish

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

French Element of Joint Honours M.A.

(where the other subject is from the School of Modern Languages):

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 30 credits: FR2031;
30 credits: FR2032 - with a pass at grade 11 or better.

*[WIYA only: 60 credits: FR3101 or (ML3105 **with** ML3106)].*

Third Year: 15 credits: FR3001;
15 credits: FR3002 (or equivalent study abroad);
15 credits in one of: FR3010 - FR3099;
Up to 45 further credits: FR3010 - FR3099, FR4000 - FR4189;

Fourth Year: 30 credits: FR4105 **and** FR4106;
Further credits: FR3010 – FR3099, FR3103, FR4000 - FR4199, if necessary, to a total of between 90 and 150 credits in French across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

French and one of: Ancient History, Art History, Biblical Studies, Classical Studies, Classics, English, Film Studies, Geography, Greek, Hebrew, International Relations, Latin, Management, Mediaeval History, Modern History, Philosophy, Psychology, Social Anthropology, Theological Studies.

All of the above are available also as 'With Integrated Year Abroad' degrees

French Element of M.A. Joint Honours

(where the other subject is NOT from the School of Modern Languages, except French and Classics):

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 30 credits: FR2031;
30 credits: FR2032 - with a pass at grade 11 or better.

[WIYA only: 60 credits: FR3101].

Third Year: 15 credits: FR3001;
15 credits: FR3002 (or equivalent study abroad);
15 credits in one of: FR3010 - FR3099;
Up to 45 further credits: FR3010 - FR3099, FR4000 - FR4189;

Fourth Year: 30 credits: FR4105 **and** FR4106;
Further credits: FR3010 - FR3099, FR3103, FR4000 - FR4199, if necessary, to a total of 120 credits in French across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

French and Classics - Joint Honours M.A.

Available also as a 'With Integrated Year Abroad' degree

French Element of M.A. French and Classics Joint Honours:

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 20 credits: FR2021;

20 credits: FR2022 - with a pass at grade 11 or better.

[WIYA only: 60 credits: FR3101].

Third Year: 15 credits: FR3001

15 credits: FR3002 (or equivalent study abroad);

15 credits in one of: FR3010 - FR3099;

Up to 45 further credits: FR3010 - FR3099, FR4000 - FR4189;

Fourth Year: 30 credits: FR4105 **and** FR4106;

Further credits: FR3010 - FR3099, FR3103, FR4000 - FR4199, if necessary, to a total of 120 credits in French across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

... 'with' French - Honours B.Sc.

Biology, Chemistry, Computer Science^N, Economics^N, Geography^N, Mathematics^N, or Physics^N with French.

For students admitted before 2009-10

^N Not available to anyone not already admitted to the programme.

All the above are available also as degrees 'With Integrated Year Abroad'

Fourth Year: 30 credits: FR4807 **and** FR4808.

In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Biology or Chemistry with French (for students admitted from 2009-10)

Available also as 'With Integrated Year Abroad' degrees'.

French minor element of Honours B.Sc.

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 20 credits: FR2021;

20 credits: FR2022 - with a pass at grade 11 or better.

[WIYA only: 60 credits: FR3101].

Third Year: 30 credits: FR3001 **and** FR3002.

Fourth Year: 30 credits: FR4105 **and** FR4106.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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.

Chemistry with French - Honours M.Chem.

For students admitted before 2009-10

French minor element of Honours M.Chem.

Fifth Year: 30 credits: FR4807 **and** FR4808.

Modern Languages - Honours Level 2012/13 - August 2012

Chemistry with French, Chemistry with French and External Placement - Honours M.Chem.

For students admitted from 2009-10

French minor element of Honours M.Chem.

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 20 credits: FR2021;

20 credits: FR2022 - with a pass at grade 11 or better.

Third Year: 30 credits: FR3001 **and** FR3002.

Fourth Year: 30 credits: FR5810.

Fifth Year: 30 credits: FR4105 **and** FR4106.

In total, 360 credits must be achieved at 3000, 4000 and 5000 level, including at least 120 credits at 5000 level.

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.

French - (Modern Languages Triple Subject) Honours M.A.

French and two of: Arabic, Comparative Literature, German, Italian, Russian, Spanish

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

French Element of Triple Subject Honours M.A.

(where the other two subjects are both from the School of Modern Languages):

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 20 credits: FR2021;

20 credits: FR2022 - with a pass at grade 11 or better.

[WIYA only: 60 credits: FR3101 **or** (ML3105 **with** ML3106)].

Third Year: 15 credits: FR3001;

15 credits: FR3002 (or equivalent study abroad);

Up to 60 credits: FR3010 - FR3099, FR4000 - FR4189;

Fourth Year 30 credits: FR4105 **and** FR4106;

Further credits: FR3010 - FR3099, FR3103, FR4000 - FR4199, if necessary, to a total of between 60 and 120 credits in French across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

One year may be spent in Study Abroad on a recognised Exchange scheme.

French and one of: Arabic, German, Italian, Russian, Spanish

and one of: Ancient History, English, International Relations, Latin^B, Linguistics^N, Management

^N (and WIYA) Not available to entrants from 2009-10

^B French-German with Latin is only available to beginners in German

French and one of: (Arabic, Italian, Russian, Spanish) and Classical Studies

and one of: (German^G, Italian, Spanish) and Greek

^G French-German with Greek is only available to non-beginners in German

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

French Element of Triple Subject Honours M.A.

(where one of the other two subjects is not from the School of Modern Languages):

First Year: 40 credits: FR1001 **and** FR1002.

Second Year: 20 credits: FR2021;

20 credits: FR2022 - with a pass at grade 11 or better.

[WIYA only: 60 credits: FR3101 **or** (ML3105 **with** ML3106)].

Third Year: 15 credits: FR3001;

15 credits: FR3002 (or equivalent study abroad);

Up to 30 credits: FR3010 - FR3099, FR4000 - FR4189;

Fourth Year 30 credits: FR4105 **and** FR4106;

Further credits: FR3010 - FR3099, FR3103, FR4000 - FR4199, if necessary, to a total of between 60 and 90 credits in French across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level and between 150 and 180 credits in Third and Fourth Years from the two subjects in the School of Modern Languages.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

German - Single Honours M.A.

Available also as 'With Integrated Year Abroad' degree

First Year: 40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004).
Second Year: 30 credits: GM2001 **or** GM2009;
30 credits: GM2002 **or** GM2010 - with a pass at grade 11 or better.
[WIYA only: 60 credits: GM3101].
Third Year: 30 credits: GM3005 **and** GM3006;
15 credits: GM4007 (if available);
Further credits: GM3010 - GM3099, GM4000 - GM4095 to a total of 120 for the Year.
Fourth Year: 30 credits: GM4105 **and** GM4106;
15 credits : GM4007 (unless taken in Third Year);
Further credits: GM3010 - GM3099, GM3103, GM4000 - GM4099, to a total of 240 credits across Third and Fourth Years, with at least 90 of these credits at 4000-level.
Students in Third or Fourth Year may, with permission of both Heads of School, substitute up to 30 3000- or 4000-level credits in another subject for 3000- or 4000-level credits in German.

One year may be spent in Study Abroad on a recognised Exchange scheme.

German - Joint Honours M.A.

German and one of: Arabic, Comparative Literature, French, Italian, Russian, Spanish.

^T Timetable clash exists, therefore combination subject to arrangement by both Schools

[^] see **Other information** below

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

German Element of M.A. Joint Honours

(where the other subject is from the School of Modern Languages):

First Year: 40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004).

Second Year: 30 credits: GM2001 **or** GM2009;
30 credits: GM2002 **or** GM2010 - with a pass at grade 11 or better.

*[WIYA only: 60 credits: GM3101 **or** (ML3105 **with** ML3106)].*

Third Year: 30 credits: GM3005 **and** GM3006;
Up to 60 credits: GM3010 - GM3099, GM4000 - GM4095.

Fourth Year: 30 credits: GM4105 **and** GM4106;
Further credits: GM3010 - GM3099, GM3103, GM4000 - GM4099 if necessary, to a total of between 90 and 150 credits in German across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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.

Modern Languages - Honours Level 2012/13 - August 2012

German and one of: Ancient History, Art History, Biblical Studies^T, Economics, English, Film Studies, International Relations, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, New Testament, Philosophy, Psychology, Social Anthropology, Theological Studies.

^T Timetable clash exists, therefore combination subject to arrangement by both Schools

All of the above are available also as 'With Integrated Year Abroad' degrees

German Element of M.A. Joint Honours

(where the other subject is NOT from the School of Modern Languages, except German and Psychology with BPS recognition):

First Year: 40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004).

Second Year: 30 credits: GM2001 **or** GM2009;

30 credits: GM2002 **or** GM2010 - with a pass at grade 11 or better.

*[WIYA only: 60 credits: GM3101 **or** (ML3105 **with** ML3106)].*

Third Year: 30 credits: GM3005 **and** GM3006;

30 credits: GM3010 - GM3099, GM4000 - GM4095.

Fourth Year: 30 credits: GM4105 **and** GM4106;

30 further credits: GM3010 - GM3099, GM3103, GM4000 - GM4099.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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.

German and Psychology (with BPS recognition) - Joint Honours M.A.

Available also as a 'With Integrated Year Abroad' degree.

German Element of M.A. German and Psychology Joint Honours (with BPS recognition):

First Year: 40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004).

Second Year: 30 credits: GM2001 **or** GM2009;

30 credits: GM2002 **or** GM2010 - with a pass at grade 11 or better.

[WIYA only: 60 credits: GM3101].

Third Year: 30 credits: GM3005 **and** GM3006;

Up to 30 credits: GM3010 - GM3099, GM4000 - GM4095.

Fourth Year: 30 credits: GM4105 **and** GM4106;

Further credits: GM3010 - GM3099, GM3103, GM4000 - GM4099 if necessary, to a total of 90 credits in German across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Modern Languages - Honours Level 2012/13 - August 2012

German - (Modern Languages Triple Subject) - Honours M.A.

German and two of: Arabic, Comparative Literature, French, Italian, Russian, Spanish

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

German Element of Triple Subject Honours M.A.

(where the other two subjects are both from the School of Modern Languages):

First Year: 40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004).

Second Year: 40 credits: (GM2001 **with** GM2004) **or** (GM2002 **with** GM2003) **or** (GM2007 **with** GM2010) **or** (GM2008 **with** GM2009) - with a pass at grade 11 or better in the Semester 2 module.

*[WIYA only: 60 credits: GM3101 **or** (ML3105 **with** ML3106)].*

Third Year: 30 credits: GM3005 **and** GM3006;
Up to 30 credits: GM3010 - GM3099, GM4000 - GM4095.

Fourth Year: 30 credits: GM4105 **and** GM4106;
Up to 30 further credits: GM3010 - GM3099, GM3103, GM4000 - GM4095.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

German and one of: Arabic, French, Italian, Russian, Spanish

and one of: Ancient History, English, International Relations, Latin^B, Management

^B Combinations including German and Latin are only available to beginners in German.

German and one of: French, Italian, Spanish and Greek^G

^G Combinations including German and Greek are only available to non-beginners in German.

All of the above are available also as 'With Integrated Year Abroad' degree although at present not with a placement through Arabic.

German Element of M.A. Triple Subject Honours

(where one of the other two subjects is not from the School of Modern Languages):

First Year: 40 credits: (GM1001 **with** GM1002) **or** (GM1003 **with** GM1004).

Second Year: 40 credits: (GM2001 **with** GM2004) **or** (GM2002 **with** GM2003) **or** (GM2007 **with** GM2010) **or** (GM2008 **with** GM2009) - with a pass at grade 11 or better in the Semester 2 module.

*[WIYA only: 60 credits: GM3101 **or** (ML3105 **with** ML3106)].*

Third Year: 30 credits: GM3005 **and** GM3006;
Up to 30 credits: GM3010 - GM3099, GM4000 - GM4095.

Fourth Year: 30 credits: GM4105 **and** GM4106;
Further credits: GM3010 - GM3099, GM3103, GM4000 - GM4095, if necessary, to a total of between 60 and 90 credits in German across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level and between 150 and 180 credits in Third and Fourth Years from the two subjects in the School of Modern Languages.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

... with German - Honours M.A. and B.Sc.	
Economics with German Honours M.A.	Biology with German^N Honours B.Sc. ^N Not available to entrants from 2008-09
Available also as 'With Integrated Year Abroad' degrees.	
<p>German minor Element of M.A. Honours</p> <p>First Year: 40 credits: (GM1001 with GM1002) or (GM1003 with GM1004).</p> <p>Second Year: 40 credits: (GM2001 with GM2004) or (GM2002 with GM2003) or (GM2007 with GM2010) or (GM2008 with GM2009) - with a pass at grade 11 or better in the Semester 2 module.</p> <p>[WIYA only: 60 credits: GM3101].</p> <p>Third Year: 30 credits: GM3005 and GM3006.</p> <p>Fourth Year: 30 credits: GM4105 and GM4106.</p> <p>In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p>	

Italian - Single Honours M.A.	
Available also as a 'With Integrated Year Abroad' degree	
First Year:	<p>EITHER</p> <p>40 credits: IT1001, IT1002;</p> <p>OR</p> <p>20 credits: IT1003 and IT1004;</p> <p>20 credits: IT1005 - IT1099.</p>
Second Year:	<p>20 credits: IT2001;</p> <p>20 credits: IT2002 - with a pass at grade 11 or better.</p> <p>[WIYA only: 60 credits: IT3101].</p>
Third Year:	<p>30 credits: IT3001 and IT3002;</p> <p>90 credits: IT3003 - IT3099, IT4006 - IT4089.</p>
Fourth Year:	<p>60 credits: IT4003 and IT4004 and IT4099;</p> <p>60 further credits: IT3003 - IT3099, IT3103, IT4005 - IT4089, to a total of 240 credits across Third and Fourth Years, with at least 90 of these credits at 4000-level.</p> <p><i>Students in Third or Fourth Year may, with permission of both Heads of School, substitute up to 30 3000- or 4000-level credits in another subject for 3000- or 4000-level credits in Italian.</i></p>
One year may be spent in Study Abroad on a recognised Exchange scheme.	

Modern Languages - Honours Level 2012/13 - August 2012

Italian – Joint Honours M.A.

Italian and one of: Arabic, Comparative Literature, French, German, Russian, Spanish.

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

Italian Element of Joint Honours M.A.

(where the other subject is from the School of Modern Languages):

First Year: **EITHER**

40 credits: IT1001, IT1002;

OR

20 credits: IT1003 **and** IT1004;

20 credits: IT1005 - IT1099.

Second Year: 20 credits: IT2001;

20 credits: IT2002 - with a pass at grade 11 or better.

[WIYA only: 60 credits: IT3101 **or** (ML3105 **with** ML3106)].

Third Year: 30 credits: IT3001 **and** IT3002;

Up to 60 credits: IT3003 - IT3099, IT4006 - IT4089.

Fourth Year: 30 credits: IT4003 **and** IT4004;

Further credits: IT3003 - IT3099, IT3103, IT4005 - IT4089, IT4098 if necessary, to a total of between 90 and 150 credits in Italian across Third and Fourth Years.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Italian and one of: Ancient History, Art History, Classical Studies, Classics, Economics, English, Film Studies, Geography, Greek, International Relations, Latin, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Scottish History, Social Anthropology.

Available also as 'With Integrated Year Abroad' degree

Italian Element of Joint Honours M.A.

(where the other subject is NOT from the School of Modern Languages, except Italian and Psychology with BPS recognition):

First Year: **EITHER**

40 credits: IT1001, IT1002;

OR

20 credits: IT1003 **and** IT1004;

20 credits: IT1005 - IT1099.

Second Year: 20 credits: IT2001;

20 credits: IT2002 - with a pass at grade 11 or better.

[WIYA only: 60 credits: IT3101 **or** (ML3105 **with** ML3106)].

Third Year: 30 credits: IT3001 **and** IT3002;

Between 30 and 60 credits: IT3003 – IT3099, IT4006 - IT4089.

Fourth Year: 30 credits: IT4003 **and** IT4004;

Further credits: IT3003 – IT3099, IT3103, IT4005 - IT4089, IT4098 if necessary, to a total of 120 credits in Italian across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

Italian and Psychology (with BPS recognition) - Joint Honours M.A.

Available also as a 'With Integrated Year Abroad' degree.

Italian Element of Joint Honours M.A. Italian and Psychology (with BPS recognition):

First Year: EITHER
40 credits: IT1001, IT1002;
OR
20 credits: IT1003 **and** IT1004;
20 credits: IT1005 - IT1099.

Second Year: 20 credits: IT2001;
20 credits: IT2002 - with a pass at grade 11 or better.

[WIYA only: 60 credits: IT3101].

Third Year: 30 credits: IT3001 **and** IT3002;
Up to 30 credits: IT3003 - IT3099, IT4006 - IT4089.

Fourth Year: 30 credits: IT4003 **and** IT4004;
Further credits: IT3003 – IT3099, IT3103, IT4005 - IT4089, IT4097 - IT4099 to a total of at least 110 credits in Italian across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Italian (Modern Languages Triple Subject) - Honours M.A.

Italian and two of: Arabic, Comparative Literature, French, German, Russian, Spanish

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

Italian Element of Triple Subject Honours M.A.

(where the other two subjects are both from the School of Modern Languages):

First Year: EITHER
40 credits: IT1001, IT1002;
OR
20 credits: IT1003 **and** IT1004;
20 credits: IT1005 - IT1099.

Second Year: 20 credits: IT2001;
20 credits: IT2002 - with a pass at grade 11 or better.

*[WIYA only: 60 credits: IT3101 **or** (ML3105 **with** ML3106)].*

Third Year: 30 credits: IT3001 **and** IT3002;
Up to 60 credits: IT3003 - IT3099, IT4006 - IT4089

Fourth Year: 30 credits: IT4003 **and** IT4004;
Further credits: IT3003 - IT3099, IT3103, IT4005 - IT4089, IT4098 - IT4099 if necessary, to a total of between 60 and 120 credits in Italian across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

<p>Italian and one of: Arabic, Comparative Literature, French, German, Russian, Spanish</p> <p>and one of: Ancient History, English, International Relations, Latin^B, Management</p> <p>^B Italian-German with Latin is only available to beginners in German.</p>	<p>Italian and one of: (Arabic, French, Russian, Spanish) and Classical Studies</p> <p>and one of: (French, German, Spanish) and Greek^G</p> <p>^G Italian-German with Greek is only available to non-beginners in German.</p>
<p>All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.</p>	
<p>Italian Element of M.A. Triple Subject Honours (where one of the other two subjects is not from the School of Modern Languages:</p> <p>First Year: EITHER 40 credits: IT1001, IT1002; OR 20 credits: IT1003 and IT1004; 20 credits: IT1005 - IT1099.</p> <p>Second Year: 20 credits: IT2001; 20 credits: IT2002 - with a pass at grade 11 or better.</p> <p><i>[WIYA only: 60 credits: IT3101 or (ML3105 with ML3106)]</i></p> <p>Third Year: 30 credits: IT3001 and IT3002; Up to 30 credits: IT3003 - IT3099, IT4006 - IT4089.</p> <p>Fourth Year: 30 credits: IT4003 and IT4004; Further credits: IT3003 - IT3099, IT3103, IT4005 - IT4089, IT4098 - IT4099 if necessary, to a total of between 60 and 90 credits in Italian across Third and Fourth Years.</p> <p>In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level and between 150 and 180 credits in Third and Fourth Years from the two subjects in the School of Modern Languages.</p> <p>Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.</p>	

... with Linguistics - Honours M.A.

English, French^w, German^w, Italian^w, Psychology, Russian^w, Social Anthropology, Spanish^w
with Linguistics^N

^w Available also as 'With Integrated Year Abroad' degree

^N None of these programmes available to entrants from 2009-10

Linguistics minor element of 'with Linguistics' Honours M.A.

Fourth Year: 30 credits in two of: LI4001, LI4002, LI4098.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Russian – Single Honours M.A.

Available also as 'With Integrated Year Abroad' degree

First Year:	40 credits: (RU1001 with RU1002) or (RU1005 with RU1006).
Second Year:	30 credits: RU2003 or RU2005; 30 credits: RU2004 or RU2006 - with a pass at grade 11 or better.
[WIYA only:	60 credits: RU3101]
Third Year:	EITHER 30 credits: RU3001 and RU3002; 45 credits: RU3021 - RU3042; 45 further credits: RU3021 - RU3042, RU3103, RU4128 – RU4144, RU4201. OR 75 credits: RU3001 and RU3102 45 credits: RU3021 - RU3042. OR (WIYA) 30 credits: RU3005 and RU3110; 90 credits: RU3021 - RU3042, RU4128 – RU4144, RU4201.
Fourth Year:	60 credits: RU4101 and RU4104 and RU4199; 60 further credits: RU3021 - RU3042, RU4128 – RU4144, RU4201. <i>Students in Third or Fourth Year may, with permission of the Heads of School concerned, substitute up to 30 3000- or 4000-level credits in another subject for 3000- or 4000-level credits in Russian.</i>

Modern Languages - Honours Level 2012/13 - August 2012

Russian - Joint Honours M.A.

Russian and one of: Arabic, Art History, Comparative Literature, Economics, English^E, Film Studies, French, German, Hebrew, International Relations, Italian, Latin, Management^T, Mathematics, Mediaeval History, Middle East Studies, Modern History, Philosophy, Scottish History, Social Anthropology, Spanish, Theological Studies.

All of the above are also as 'With Integrated Year Abroad' degrees

^E Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead. Reversal of first-level and second-level EN modules is not allowed.

^T Timetable clash exists, therefore combination subject to arrangement by both Schools.

Russian Element of Joint Honours M.A.

First Year: 40 credits: (RU1001 **with** RU1002) **or** (RU1005 **with** RU1006).

Second Year: 30 credits: RU2003 **or** RU2005;

30 credits: RU2004 **or** RU2006 - with a pass at grade 11 or better.

[WIYA only: 60 credits: RU3101 **or** (ML3105 **with** ML3106)]

Third Year: **EITHER**

30 credits: RU3001 **and** RU3002;

15 credits in one of: RU3021 - RU3042;

15 further credits: RU3021 - RU3042, RU3103, RU4128 – RU4144, RU4201.

OR

75 credits: RU3001 **and** RU3102.

OR (WIYA)

30 credits: RU3005 **and** RU3010;

15 credits in one of: RU3021 - RU3042;

15 further credits: RU3021 - RU3042, RU4128 - RU4144, RU4201.

Fourth Year: 30 credits: RU4101 **and** RU4104;

30 further credits: RU3021 - RU3042, RU4128 – RU4198.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Russian - (Modern Languages Triple Subject) - Honours M.A.

Russian and two of: Arabic, Comparative Literature, French, German, Italian, Spanish

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

Russian Element of Triple Subject Honours M.A.

(where the other two subjects are both from the School of Modern Languages):

First Year: 40 credits: (RU1001 **with** RU1002) **or** (RU1005 **with** RU1006).

Second Year: 40 credits: (RU2001 **with** RU2002) **or** (RU2003 **with** RU2109) **or** (RU2110 **with** RU2004) **or** (RU2005 **with** RU2107) **or** (RU2105 **with** RU2106) **or** (RU2108 **with** RU2006) - with a pass at grade 11 or better in the Semester 2 module.

[WIYA only: 60 credits: RU3101 **or** (ML3105 **with** ML3106)]

Third Year: **EITHER**

30 credits: RU3001 **and** RU3002;

Up to 15 credits: RU3021 - RU3042;

Up to 15 further credits: RU3021 - RU3042, RU3103, RU4128 - RU4144, RU4201.

OR

75 credits: RU3001 **and** RU3102.

OR (WIYA)

30 credits: RU3005 **and** RU3010;

Up to 15 credits: RU3021 - RU3042;

Up to 15 further credits: RU3021 - RU3042, RU4128 - RU4144, RU4201.

Fourth Year: 15 credits: RU4101;

Up to 30 further credits: RU3021 - RU3042, RU4102, RU4104 – RU4198 if necessary, to a total of between 60 and 120 credits in Russian across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Modern Languages - Honours Level 2012/13 - August 2012

<p>Russian and one of: Arabic, French, German, Italian, Spanish</p> <p>and one of: Ancient History^R, English^E, International Relations, Latin^B Management^T)</p> <p>^E Where first-level Russian modules clash with EN1003 and/or EN1004 then CO1001 and/or CO1002 should be taken instead. Reversal of first-level and second-level EN modules is not allowed.</p> <p>^T Timetable clash exists, therefore combination subject to arrangement by both Schools.</p> <p>^R Combinations including Ancient History and Russian are only available to non-beginners in Russian.</p> <p>^B Russian-German with Latin is only available to beginners in German.</p>	<p>Russian and one of: (Arabic, French, Italian, Spanish) and Classical Studies</p>
<p>All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.</p>	
<p>Russian Element of Triple Subject Honours M.A. (where one of the other two subjects is not from the School of Modern Languages)</p> <p>First Year: 40 credits: (RU1001 with RU1002) or (RU1005 with RU1006).</p> <p>Second Year: 40 credits: (RU2001 with RU2002) or (RU2003 with RU2109) or (RU2110 with RU2004) or (RU2005 with RU2107) or (RU2105 with RU2106) or (RU2108 with RU2006) - with a pass at grade 11 or better in the Semester 2 module.</p> <p>[WIYA only: 60 credits: RU3101 or (ML3105 with ML3106)]</p> <p>Third Year: EITHER</p> <p>30 credits: RU3001 and RU3002; Up to 15 credits: RU3021 - RU3042; Up to 15 further credits: RU3021 - RU3042, RU3103, RU4128 – RU4144, RU4201.</p> <p>OR</p> <p>75 credits: RU3001 and RU3102.</p> <p>OR (WIYA)</p> <p>30 credits: RU3005 and RU3010; Up to 15 credits: RU3021 - RU3042; Up to 15 further credits: RU3021 - RU3042, RU4128 – RU4144, RU4201.</p> <p>Fourth Year: 15 credits: RU4101; Up to 30 further credits: RU3021 - RU3042, RU4102, RU4104 – RU4198 if necessary, to a total of between 60 and 90 credits in Russian across Third and Fourth Years.</p> <p>In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p> <p>Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.</p>	

Russian 'with'... - Honours M.A.

Russian with Geography

Available also as a 'With Integrated Year Abroad' degree.

Russian Major Element of Russian with Geography M.A. Honours:

First Year: 40 credits: (RU1001 **with** RU1002) **or** (RU1005 **with** RU1006).

Second Year: 30 credits: RU2003 **or** RU2005;

30 credits: RU2004 **or** RU2006 - with a pass at grade 11 or better.

[WIYA only: 60 credits: RU3101]

Third Year: **EITHER**

30 credits: RU3001 **and** RU3002;

Between 15 and 30 credits: RU3021 - RU3042;

Between 15 and 30 further credits: RU3021 - RU3042, RU3103, RU4128 - RU4144, RU4201.

OR

75 credits: RU3001 **and** RU3102.

15 credits in one of: RU3021 - RU3042;

OR (WIYA)

30 credits: RU3005 **and** RU3010;

Between 15 and 30 credits: RU3021 - RU3042;

Between 15 and 30 further credits: RU3021 - RU3042, RU4128 - RU4144, RU4201.

Fourth Year: 60 credits: RU4101 **and** RU4104 **and** RU4199;

Further credits: RU3021 - RU3042, RU4128 - RU4144, RU4201 if necessary, to a total of 180 credits in Russian across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

... 'with' Russian - Honours M.A.

Economics with Russian, Mathematics with Russian

All of the above are available also as 'With Integrated Year Abroad' degrees

Russian Minor Element of Economics/Mathematics with Russian M.A. Honours:

First Year: 40 credits: (RU1001 **with** RU1002) **or** (RU1005 **with** RU1006).

Second Year: At least 20 credits: RU2001 **or** RU2003 **or** RU2005;
At least 20 credits: RU2002 **or** RU2004 **or** RU2006 - with a pass at grade 11 or better.

[WIYA only: 60 credits: RU3101]

Third Year: **EITHER**

30 credits: RU3001 **and** RU3002;

Up to 15 credits: RU3021 - RU3042;

Up to 15 further credits: RU3021 - RU3042, RU3103, RU4128 – RU4144.

OR (WIYA)

30 credits: RU3005 **and** RU3010;

Up to 15 credits: RU3021 - RU3042;

Up to 15 further credits: RU3021 - RU3042, RU4128 – RU4144, RU4201.

Fourth Year: 15 credits: RU4101;

Up to 30 credits from RU3021 - RU3042, RU4102, RU4104 – RU4195 if necessary to a total of 60 in Russian across Third and Fourth Years

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Spanish - Single Honours M.A.

Available also as 'With Integrated Year Abroad' degree

First Year: 40 credits: (SP1001 **with** SP1002) **or** (SP1003 **with** SP1004).

Second Year: 30 credits: SP2001 **or** SP2005;
30 credits: SP2002 - with a pass at grade 11 or better.

[WIYA only: 60 credits: SP3101]

Third Year: 60 credits: SP3001 **and** SP3002 **and** SP3221 **and** SP3222;
60 further credits: SP3000 - SP3999.

Fourth Year: **EITHER**

15 credits: SP4003 **or** SP4103;

45 credits: SP4004 **and** SP4223 **and** SP4224;

15 credits: SP3006 - SP3011, SP4008, SP4012;

At least 15 credits: SP4098 **or** SP4099;

Further credits: SP3000 - SP4089, SP4200 - SP4299, to a total of 120 credits for the Year, of which at least 90 credits must be at 4000-level.

OR (EXCEPT WIYA)

90 credits: SP4004 **and** SP4099 **and** SP4102 **and** SP4224;

15 credits: SP3006 - SP3011, SP4008, SP4012;

15 further credits: SP3000 - SP4089, SP4200 - SP4299.

Students in Third or Fourth Year may, with permission of the Heads of School concerned, substitute up to 30 3000- or 4000-level credits in another subject for 3000- or 4000-level credits in Spanish.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Spanish - Joint Honours M.A.

Spanish and one of: Arabic, Comparative Literature, French, German, Italian, Russian

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

Spanish Element of Joint Honours M.A.

(where the other subject is from the School of Modern Languages):

First Year: 40 credits: (SP1001 **with** SP1002) **or** (SP1003 **with** SP1004).

Second Year: 30 credits: SP2001 **or** SP2005;
30 credits: SP2002 - with a pass at grade 11 or better.

EITHER

*[WIYA only: 60 credits: SP3101 **or** (ML3105 **with** ML3106)]*

Third Year: 60 credits: SP3001 **and** SP3002 **and** SP3221 **and** SP3222.
Up to 30 further credits: SP3000 - SP4089, SP4200 - SP4298.

Fourth Year: 15 credits: SP4003 **or** SP4103;
15 credits: SP4004;
At least 15 credits: SP4223 - SP4224;
Further credits: SP3000 - SP4089, SP4200 - SP4298 if necessary, to a total of between 105 and 150 credits in Spanish across Third and Fourth Years.

OR (for those taking less than 105 Spanish credits over the two Honours years)

*[WIYA only: 60 credits: SP3101 **or** (ML3105 **with** ML3106)]*

Third Year: 30 credits: SP3001 **and** SP3002
15 further credits: SP3000 - SP4089, SP4200 - SP4298.

Fourth Year: 30 credits: SP4003 **and** SP4004;
15 further credits: SP3000 - SP4099, SP4200 - SP4298.

OR (EXCEPT WIYA and with permission from the Chair of Department/Convenor for the Joint subject)

Third Year: 60 credits: SP3001 **and** SP3002 **and** SP3221 **and** SP3222.

Fourth Year: 90 credits: SP4004 **and** SP4099 **and** SP4102 **and** SP4224;

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

Spanish and one of: Ancient History, Art History, Economics, English, Film Studies, Geography, Greek, International Relations, Latin, Management, Mathematics, Mediaeval History, Middle East Studies, Modern History^T, Philosophy, Scottish History, Social Anthropology^T, Theological Studies

^T Timetable clash: combination subject to arrangements with both Departments.

All of the above are available also as 'With Integrated Year Abroad' degrees

Spanish Element of M.A. Joint Honours

(where the other subject is NOT from the School of Modern Languages, except Spanish and Classics):

First Year: 40 credits: (SP1001 **with** SP1002) **or** (SP1003 **with** SP1004).

Second Year: 30 credits: SP2001 **or** SP2005;

30 credits: SP2002 - with a pass at grade 11 or better.

[WIYA only: 60 credits: SP3101]

Third Year: 60 credits: SP3001 **and** SP3002 **and** SP3221 **and** SP3222.

Fourth Year: **EITHER**

15 credits: SP4003 **or** SP4103;

15 credits: SP4004

At least 15 credits: SP4223 - SP4224;

Further credits: SP3000 - SP4089, SP4200 - SP4298 if necessary, to a total of 60 credits for the Year.

OR (EXCEPT WIYA and with permission from the relevant School for the Joint subject)

90 credits: SP4004 **and** SP4099 **and** SP4102 **and** SP4224.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

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.

Spanish and Classics - Joint Honours M.A.

Available also as a 'With Integrated Year Abroad' degree.

Spanish Element of Spanish and Classics M.A. Joint Honours:

First Year: 40 credits: (SP1001 **with** SP1002) **or** (SP1003 **with** SP1004).

Second Year: 40 credits: (SP2002 **with** SP2003) **or** (SP2001 **with** SP2004) **or** (SP2004 **with** SP2005) - with a pass at grade 11 or better in the Semester 2 module.

[WIYA only: 60 credits: SP3101]

Third Year: 60 credits: SP3001 **and** SP3002 **and** SP3221 **and** SP3222.

Fourth Year: 15 credits: SP4003 **or** SP4103;

15 credits: SP4004

At least 15 credits: SP4223 - SP4224;

Further credits: SP3000 - SP4089, SP4200 - SP4298 if necessary, to a total of 60 credits for the Year.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Spanish - Triple Subject Honours M.A.

Spanish and two of: Arabic, Comparative Literature, French, German, Italian, Russian

All of the above are available also as 'With Integrated Year Abroad' degrees although at present not with a placement through Arabic.

Spanish Element of M.A. Triple Subject Honours

(where the other two subjects are both from the School of Modern Languages):

First Year: 40 credits: (SP1001 **with** SP1002) **or** (SP1003 **with** SP1004).

Second Year: 40 credits: (SP2002 **with** SP2003) **or** (SP2001 **with** SP2004) **or** (SP2004 **with** SP2005) - with a pass at grade 11 or better in the Semester 2 module.

[WIYA only: 60 credits: SP3101 **or** (ML3105 **with** ML3106)]

Third Year: 30 credits: SP3001 **and** SP3002;

Up to 60 credits: SP3000 - SP4089, SP4200 - SP4298.

Fourth Year: 15 credits: SP4003 **or** SP4103;

15 credits: SP4004;

Further credits: SP3000 - SP4099, SP4200 - SP4298 if necessary, to a total of between 60 and 120 credits in Spanish across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

One year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Spanish and one of: Arabic, French, German, Italian, Russian

and one of: Ancient History, English, International Relations, Latin^B, Management

^B Combinations including German and Latin are only available to beginners in German.

Spanish and one of: (Arabic, French, Italian, Russian) and Classical Studies

and one of: (French, German, Italian) and Greek^G

^B Spanish-German with Latin is only available to beginners in German.

^G Spanish-German with Greek is only available to non-beginners in German.

All of the above are available also as 'With Integrated Year Abroad' degrees, although at present not with a placement through Arabic.

Spanish Element of Triple Subject Honours M.A.

(where one of the other two subjects is not from the School of Modern Languages):

First Year: 40 credits: (SP1001 **with** SP1002) **or** (SP1003 **with** SP1004).

Second Year: 40 credits: (SP2002 **with** SP2003) **or** (SP2001 **with** SP2004) **or** (SP2004 **with** SP2005) - with a pass at grade 11 or better in the Semester 2 module.

[WIYA only: 60 credits: SP3101 **or** (ML3105 **with** ML3106)]

Third Year: 30 credits: SP3001 **and** SP3002;

Up to 30 credits: SP3000 - SP4089, SP4200 - SP4298.

Fourth Year: 15 credits: SP4003 **or** SP4103;

15 credits: SP4004;

Further credits: SP3000 - SP4099, SP4200 - SP4298 if necessary, to a total of between 60 and 90 credits in Spanish across Third and Fourth Years.

In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.

Modern Languages - Honours Level 2012/13 - August 2012

Spanish 'with' ... - Honours M.A.	
Spanish with Geography Honours M.A. Available also as a 'With Integrated Year Abroad' degree.	
Spanish Major Element of Spanish with Geography Honours M.A. First Year: 40 credits: (SP1001 with SP1002) or (SP1003 with SP1004). Second Year: 30 credits: SP2001 or SP2005; 30 credits: SP2002 - with a pass at grade 11 or better. <i>[WIYA only: 60 credits: SP3101]</i> Third Year: 60 credits: SP3001 and SP3002 and SP3221 and SP3222; Up to 60 credits: SP3000 - SP4089, SP4200 - SP4298. Fourth Year: 15 credits: SP4003 or SP4103; 45 credits: SP4004 and SP4223 and SP4224; Further credits: SP3000 - SP4099, SP4200 - SP4298 if necessary, to a total of 180 credits in Spanish across Third and Fourth Years. In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level. Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.	
... 'with' Spanish - Honours M.A.	
Economics, Geography, Mathematics with Spanish All of the above are available also as 'With Integrated Year Abroad' degrees	
Spanish Minor Element of Economics/Geography/Mathematics with Spanish Honours M.A. First Year: 40 credits: (SP1001 with SP1002) or (SP1003 with SP1004). Second Year: 30 credits: SP2001 or SP2005; 30 credits: SP2002 - with a pass at grade 11 or better. <i>[WIYA only: 60 credits: SP3101]</i> Third Year: 30 credits: SP3001 and SP3002. Fourth Year: 15 credits: SP4003 or SP4103; 15 credits: SP4004. In total, 240 credits (300 for WIYA programmes) must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level. Subject to the approval of the other School involved, one year or one semester may be spent in Study Abroad on a recognised Exchange scheme.	

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.

Arabic (AR) Modules

AR3201 Media Arabic			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	11.00 am - 1.00 pm Wed, 11.00 am Thu and Fri tutorial to be arranged.		
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.			
Programme module type:	Compulsory for Arabic, except for those taking a recognised Study Abroad Module.		
Pre-requisite(s):	AR2002		
Required for:	AR3206, AR3250, AR4205		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour classes, 1 oral tutorial and 1 surgery hour.		
	Scheduled learning: 55 hours	Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%		
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 40%, Oral Examination = 20%		
Module Co-ordinator:	Dr F Caiani		
Lecturer(s)/Tutor(s):	Dr F Caiani, MS D Al Afranji		

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AR3206 Literary Arabic				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed, 11.00 am Thu.			
This module will study linguistic, literary and cultural aspects of Arabic literary writing with readings from modern Arabic short stories. 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.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR3201 or study abroad module			
Learning and teaching methods and delivery:	Weekly contact: 3 hours and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR3250 Key Texts in Classical Arabic Literature and Culture 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module will introduce students to classical Arabic literature and culture. One hour will be spent reading and commenting upon the Arabic texts themselves, and the second will be devoted to the discussion of the literary, linguistic and cultural context of these texts. The one-hour practical class will address wider semantic, morphological and syntactical issues of the classical Arabic language.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR3201 or study abroad module			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and practical and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr K Dmitriev			
Lecturer(s)/Tutor(s):	Dr K Dmitriev			

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AR4205 Advanced Arabic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	3.00 pm or 4.00 pm, Mon, Tue and Thu and Wed tutorial to be arranged.			
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.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	60 credits from AR 3000-level modules which must include AR3201 or study abroad module			
Required for:	AR4232, AR4235, AR4251			
Learning and teaching methods and delivery:	Weekly contact: 3 hours and 1 oral tutorial and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham, Dr F Caiani, Mr M Whitehouse			

AR4235 Modern Arabic Literature: Novellas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	4.00 pm, Mon, Tue and Thu and Wed tutorial to be arranged.			
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.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR4205			
Learning and teaching methods and delivery:	Weekly contact: 3 hours, 1 oral tutorial and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham, Ms D Al Afranji			

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AR4251 Key Texts in Classical Arabic Literature and Culture 2				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module will focus on texts that have played a key role in the evolution of classical Arabic literature and culture. One hour will be spent reading and commenting upon the Arabic texts themselves, and the second hour will be devoted to the discussion of the literary, linguistic and cultural context of these texts. The texts will treat the following subjects: the origins of the Arabic literary tradition, the evolution of Arabic verse, Arabic poetry during the early Islamic period, Abbasid poetry, classical Arabic prose. The one-hour practical class will address wider semantic, morphological and syntactical issues of the classical Arabic language.</p>				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR4205			
Learning and teaching methods and delivery:	Weekly contact: 3 hours and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr K Dmitriev			
Lecturer(s)/Tutor(s):	Dr K Dmitriev			

AR4999 Dissertation in Arabic and Middle Eastern Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>A dissertation of about 10,000 words on an approved topic in Arabic and Middle East Studies, supervised by an appropriate member of staff.</p>				
Programme module type:	Optional for Arabic			
Learning and teaching methods and delivery:	Weekly contact: Tutorials by arrangement with supervisor.			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Ms C Cobham			

French (FR) Modules

FR3001 French Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon.			
The module aims to give a fundamental training at Honours level in written and aural comprehension skills, objective resume writing, oral and written fluency, and in translation from French to English... It is intended as the basic practical language unit for all categories of student.				
Programme module type:	Compulsory for all degrees involving French			
Required for:	FR4105			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr E Herdman			

FR3002 French Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon.			
Building on FR3001, the module aims to complete foundational training at Honours level, taking in written and aural comprehension skills, analytical résumé writing, oral and written fluency, and translation from English to 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 Head of Department's approval. This module may be replaced by Junior Honours second semester abroad at a partner institution. It may also be replaced by a 30-credit module in one of the non-ML triple degree subjects. It may not be omitted for any other reason.				
Programme module type:	Compulsory for French, French with Linguistics, Biology with French, Chemistry with French, Chemistry with French and External Placement Optional for Joint Honours French			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr E Herdman			

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FR3021 An Introduction to the French Classical Period				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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, Moliere, Madame de la Fayette and La Fontaine.				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: 1 or 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr J S O Carson			

FR3076 Writing the Nineteenth Century 1; French Literature, History and Politics 1848 to 1871				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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 urbanisation, 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.				
Programme module type:	Optional for all M.A. degrees involving French			
Anti-requisite(s):	FR3023			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr D E Evans			
Lecturer(s)/Tutor(s):	Dr D Evans and Dr G Bowd			

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FR3078 Writing the Self in Twentieth-Century French Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>This module explores theories relating to autobiography and <i>écriture de soi</i> as well as a variety of autobiographical practices reflecting significant trends in twentieth-century French literature. Students will read texts by major authors (for example Sartre, Perec, Sarraute 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.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: Weekly seminars and fortnightly lectures.			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr E S M Hugueny-Léger			

FR3080 Intellectuals in Modern France				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: Weekly seminars and fortnightly lectures.			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: Coursework = 40%(essay = 25%, assessed oral presentation (in French) = 15%), 2-hour Examination = 60%			
Module Co-ordinator:	Dr E S M Hugueny-Léger			

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FR3081 The Court of Louis XIV				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
An interdisciplinary introduction to and overview of the court of Louis XIV drawing on a variety of different sources, including theatre, memoirs, history books, film, music and art. Particular attention will be paid to the tension between Louis the (great) king and Louis the (weak) man, to his official image and the reality behind it. Topics studied will include the notion of absolutism, Louis's mistresses, Louis the "most Christian king", the construction of the chateau at Versailles, the Tartuffe controversy and the Affair of the Poisons.				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: Weekly seminars.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr J T Prest			
Lecturer(s)/Tutor(s):	Dr J T Prest			

FR3101 French Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
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.				
Programme module type:	Compulsory for all degrees involving French with Integrated Year Abroad			
Pre-requisite(s):	Admission to Honours Programme with Integrated Year Abroad			
Anti-requisite(s):	FR3103 or Erasmus Exchange			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: By correspondence throughout the year.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project Essay = 100%			
Module Co-ordinator:	Dr E Herdman			

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FR3103 Self-Access Residence Project in France				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	Please Contact Department			
<p>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 Erasmus year. Enrolment is subject to the Chairman's discretion: the project for residence and the project dissertation topic must be agreed in advance. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Pre-requisite(s):	Admission to Honours Programme with Integrated Year Abroad.			
Anti-requisite(s):	FR4198, FR4199 and as stated in description			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Please Contact Department			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr D Evans			

FR4078 Music in Nineteenth-Century French Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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, Mallarme), 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.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: Seminar and occasional lectures.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr D E Evans			
Lecturer(s)/Tutor(s):	Dr D E Evans			

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FR4103 Translation Methodology 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all M.A. degrees involving French Related module: FR4104			
Pre-requisite(s):	At least 45 credits from 3000- or 4000-level FR modules			
Required for:	FR4104			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D E Evans			
Lecturer(s)/Tutor(s):	Dr D E Evans			

FR4104 Translation Methodology 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all degrees involving French			
Pre-requisite(s):	FR4103			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr D E Evans			
Lecturer(s)/Tutor(s):	Dr D E Evans			

FR4105 Communication Skills in French 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving French			
Pre-requisite(s):	FR3002 if taken, otherwise FR3001 or Erasmus year/semester abroad.			
Required for:	FR4106			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr E S M Hugueny-Léger			

FR4106 Communication Skills in French 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving French			
Pre-requisite(s):	FR4105			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 30%, Practical Examination = 30%			
Module Co-ordinator:	Dr E S M Hugueny-Léger			

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FR4111 Discovering the Renaissance: Imitation, Interpretation and Imagination				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>The sixteenth century is a time of invention and discovery: it is a time of broadening horizons, both literally - following Columbus's discovery of the New World - and metaphorically, as the wide-scale dissemination of knowledge becomes possible through the new medium of print. Yet it is also a time of instability and conflict, marked by the "invention" of gunpowder and by the growing schism between Catholics and Protestants, culminating in the horrors of the French religious wars.</p> <p>This module introduces students to a range of French Renaissance writers - from the seminal to the quirky - and examines how they respond to these shifting perspectives, which offer exciting intellectual and imaginative possibilities while casting serious doubt on ancient sources of knowledge and belief. The radical shift in literary authority that ensues encapsulates the humanism, scepticism and questions of identity that define the Renaissance.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: 1 or 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr E Herdman			
Lecturer(s)/Tutor(s):	Dr E Herdman			

FR4149 Aspects of Gender in Seventeenth Century Theatre				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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 <i>Histoire de la sexualité</i>.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr J T Prest			

FR4164 De Gaulle and Since: Topics in the Politics, Culture and Society of the Fifth Republic (2)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>Taught entirely in French, this module continues to explore through literary texts, but also films, press extracts and video documents, the politics, culture and society of the Fifth Republic instituted by Charles de Gaulle. Major themes include: May 1968; the New Wave cinema; Mitterrand and the inheritance of the Left; the National Front and the politics of the Right.</p>				
Programme module type:	Related module: FR3063 Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr G P Bowd			

FR4181 Contemporary French Crime Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Learning and teaching methods and delivery:	Weekly contact: Weekly seminars and fortnightly lectures.			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Prof M A Hutton			
Lecturer(s)/Tutor(s):	Prof M A Hutton			

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R4198 Dissertation on a French Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Anti-requisite(s):	FR3103, FR4199			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr D E Evans			

FR4199 Long Dissertation on a French Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2012/3			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Anti-requisite(s):	FR3103, FR4198, GM4099, IT4099, RU4199, SP4099			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	Scheduled learning: 12 hours		Guided independent study: 288 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr D E Evans			

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FR4807 Honours French 3 (Science)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for B.Sc. Honours degrees 'with French' unless a semester abroad on a work placement is done			
Pre-requisite(s):	2 of FR3805, FR3806, FR3809			
Co-requisite(s):	45 credits in modules offered in the Faculty of Science			
Learning and teaching methods and delivery:	Weekly contact: 2 classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 30%, Practical Examination = 30%			
Module Co-ordinator:	Dr G P Bowd			

FR4808 Honours French 4 (Science)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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).				
Programme module type:	Compulsory for B.Sc. Honours degrees 'with French' unless a semester abroad on a work placement is done			
Pre-requisite(s):	3 of FR3805, FR3806, FR3809, FR4807, FR4809			
Co-requisite(s):	45 credits in modules offered in the Faculty of Science			
Learning and teaching methods and delivery:	Weekly contact: 2 classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 30%, Oral Examination = 30%			
Module Co-ordinator:	Dr G P Bowd			

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FR4809 Science French Dissertation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Either FR3809 or FR4809 is compulsory for B.Sc. Honours degrees 'with French'			
Pre-requisite(s):	FR3805, FR3806	Anti-requisite(s):	FR3809	
Co-requisite(s):	45 credits in modules offered in the Faculty of Science			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Examination = 20%			
Module Co-ordinator:	Dr G P Bowd			

FR5810 French Science Project Dissertation				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Planned timetable:	To be arranged.			
<p>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 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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Chemistry with French and External Placement			
Pre-requisite(s):	Admission to stage 4 of M.Chem. with French Programme			
Anti-requisite(s):	FR3101, FR3103, FR3810, FR3809, FR4809	Co-requisite(s):	CH4441 or CH4442	
Learning and teaching methods and delivery:	Weekly contact: To be arranged			
	Scheduled learning: 12 hours		Guided independent study: 288 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr G P Bowd			

German GM) Modules

GM3005 German Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am Tue and Fri.			
This is a core language module for all students in the first 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. The module is based on a textbook which includes a wide range of different activities and registers. Students' work includes reading comprehension, discussion of issues raised by texts and audio-visual, a variety of written responses, and revision of aspects of grammar.				
Programme module type:	Compulsory for all degrees involving German			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Frau I Hartung			

GM3006 German Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am or 1.00 pm Tue and Fri.			
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.				
Programme module type:	Compulsory for all degrees involving German			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 40%, Oral Examination = 20%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Frau I Hartung			

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GM3073 The Mediaeval Short Story			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged.		
<p>The earliest German short stories, known as Mären, were funny tales about beautiful princesses, clever wives, stupid priests, wandering body parts, crossed-dressed knights, intrigue and mayhem. Using comedy, they explore some of the most problematic aspects of mediaeval culture, such as class, gender and religion. Long disregarded as popular culture, Mären have recently emerged as one of the most fascinating areas of mediaeval fiction. This module introduces students to the genre and some of its key topics.</p>			
Programme module type:	Optional for Single and Joint Honours German		
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr B Bildhauer		
Lecturer(s)/Tutor(s):	Dr B Bildhauer		

GM3080 Grammatical Rules and Lexical Exceptions in Modern German			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged.		
<p>Grammatical rules and lexical exceptions in modern German are considered against the background of Saussurean structuralism and in relation to language teaching. 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-passivisable transitive verbs; and tense formation and strong verbs.</p>			
Programme module type:	Optional for Single and Joint Honours German		
Anti-requisite(s):	LI3001		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar and 1 surgery hour.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr C Beedham		
Lecturer(s)/Tutor(s):	Dr C Beedham		

GM3087 Bertolt Brecht: The Drama of Revolt				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>Bertolt Brecht's status as one of the most influential innovators of modern theatre remains undiminished today with his plays still staples in the repertoire of theatre companies around the world. This module will explore the fusion of political engagement and aesthetic revolution in Brecht's dramatic philosophy by studying a selection of his most important works for the stage and screen, as well as his theoretical writings. We will consider the works as both performance and literature and discuss such themes as human alienation, anarchy, class struggle, the new role of the masses and Brecht's use of Marxism in his theory.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: Occasional seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Lawson			
Lecturer(s)/Tutor(s):	Dr C Lawson			

GM3088 Travel Writing in German since 1990				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>Although literary scholars declared the German-language travelogue to be a dead genre in 1989, travel writing enjoyed a remarkable resurgence in the two following decades. This revival appears to have been prompted by such factors as the radical reconfiguration of real (and imaginary) geographies in the wake of German Reunification. At the same time as this resurgence, there occurred a shift in cultural studies referred to as the "spatial turn". Theorists of culture were becoming interested in how constructing and negotiating space bears upon identity. In this module the insights of the spatial turn are applied to the reading of the newest German-language travel writing.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

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GM3101 German Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2012/3			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
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.				
Programme module type:	Compulsory for all degrees involving German with Integrated Year Abroad			
Pre-requisite(s):	Admission to the Honours Programme with Integrated Year Abroad.			
Anti-requisite(s):	GM3103 or Erasmus exchange.			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Please Contact Department			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project Essay = 100%			
Module Co-ordinator:	Dr C Lawson			

GM3103 Residential Project in a German-Speaking Country				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	Please Contact Department			
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.				
Programme module type:	Optional for Single and Joint Honours German			
Anti-requisite(s):	GM3101, GM4098			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Please Contact Department			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project = 100%			
Module Co-ordinator:	Dr C Lawson			

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GM4007 Translation Methodology (German / English)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Module Co-ordinator:	Dr C Lawson			
Lecturer(s)/Tutor(s):	Dr C Lawson			

GM4049 The Politics of Language in the FRG and the GDR from 1949 - 1989				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module examines the relationship between language and politics by comparing the language of the FRG and the GDR in the period 1949-1989. The question posed is: did the two German states use language as an ideological weapon, or were their language differences merely a reflection of their different political systems, one capitalist, the other socialist? We will analyse texts of the period, e.g. from Neues Deutschland and the West German press, and use the Leipzig Duden and the Mannheim Duden, to bring out and examine the grammatical, lexical, word-formation and textual features which were characteristic of the language of the two Germanies during the Cold War.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: Occasional seminars.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

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GM4094 The German Long Story, 1880 - 1941				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>In the German nineteenth-century a class of prose fictions longer than short stories and shorter than novels enjoyed more critical and popular success than any other prose genre. Critics usually referred to these texts as novellas, harking back to an illustrious European tradition, and developing elaborate theories of what the novella was -- or, more importantly, of what it should be. This module will keep an open mind on the novella, putting the long stories themselves, rather than theories about them in the spotlight. What made these texts so popular, and so hotly debated by German critics? How does length influence the ways in which stories are composed, published, read and critiqued? In the module we will read six long stories from the period 1880 - 1941, attending to the ways in which these fictions tackle the themes of modernity.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

GM4098 Dissertation on German Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Single and Joint Honours German			
Anti-requisite(s):	GM3101, GM3098			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	Scheduled learning: 4 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr C Beedham			

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GM4099 Long Dissertation on a German Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Single and Joint Honours German			
Anti-requisite(s):	GM4098, IT4099, FR4199, RU4199, SP4099			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr C Beedham			

GM4105 German Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	11.00 am or 3.00 pm Mon and 11.00 am or 3.00 pm Thu.			
<p>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 recognise and analyse communication techniques and employ them effectively in different situations.</p>				
Programme module type:	Compulsory for all degrees involving German			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 50%, Coursework = 25%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A Cusack			

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GM4106 German Language 4			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Planned timetable:	11.00 am or 3.00 pm Mon; 11.00 am or 3.00 pm Thu.		
<p>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 recognising and analyzing communication techniques and in employing them effectively in different situations.</p>			
Programme module type:	Compulsory for Single Honours German. Normally compulsory for all other degrees involving German		
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour.		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%		
	As used by St Andrews: Coursework = 40%, 1-hour Essay in German Examination = 20%, Oral Examination = 40%		
Module Co-ordinator:	Frau S Reisenleutner		

Italian (IT) Modules

IT3001 Italian Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100% (25% Oral test, 75% Continuous assessment),			
Module Co-ordinator:	Dr F Lacaita			
Lecturer(s)/Tutor(s):	Dr F Lacaita			

IT3002 Italian Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
This module is intended to build on the achievements of IT3001, and to further increase the students' 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; advanced Italian conversation.				
Programme module type:	Compulsory for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 30%, Practical Examinations= 30%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 30%, Practical Examination = 30%			
Module Co-ordinator:	Dr F Lacaita			
Lecturer(s)/Tutor(s):	Dr F Lacaita			

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IT3012 Fourteenth Century Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R P Wilson			
Lecturer(s)/Tutor(s):	Dr R P Wilson			

IT3014 The Language and Literature of Renaissance Italy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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 <i>Questione della lingua</i> , and the development of literary models and courtly culture in Renaissance Italy. The literary, social and political background will be introduced through close study of the texts.				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

IT3022 Nineteenth-Century Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
This module studies literature and thought of the nineteenth century, considered in its historical context. It focuses on works by Manzoni and Leopardi, and on topics such as the writer's relationship to society and the nature of literary representation.				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

IT3035 Italian Detective Fiction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R P Wilson			
Lecturer(s)/Tutor(s):	Dr R P Wilson			

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IT3037 Contemporary Italian Woman Writers				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>Since the start of the twentieth century 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 womens autobiography, the mother and daughter relationship, and the body, as treated by contemporary writers such as Anna Banti, Luisa Passerini, Clara Sereni, Elena Stancanelli.</p>				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

IT3101 Italian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Availability restrictions:	Students cannot take this module who are on an Erasmus Exchange			
Planned timetable:	To be arranged.			
<p>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 5,000 words in Italian to be received in the department by May 5th.</p>				
Programme module type:	Compulsory for all degrees involving Italian with Integrated Year Abroad			
Pre-requisite(s):	Admission to the Honours Programme with Integrated Year Abroad			
Anti-requisite(s):	IT3103 or Erasmus exchange in Italy.			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project Essay = 100%			
Module Co-ordinator:	Italian Study Abroad Coordinator			
Lecturer(s)/Tutor(s):	Italian Study Abroad Coordinator			

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IT3103 Self-access Residence in Italy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	Admission to the Honours Programme with Integrated Year Abroad.			
Anti-requisite(s):	IT3101 or Erasmus exchange in Italy.			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project essay 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%			
Module Co-ordinator:	Italian Study Abroad Coordinator			
Lecturer(s)/Tutor(s):	Italian Study Abroad Coordinator			

IT4003 Communication Skills 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving Italian			
Pre-requisite(s):	IT3002 or equivalent Study Abroad module			
Required for:	IT4004			
Learning and teaching methods and delivery:	Weekly contact: 1 oral class and 1 surgery hour per week and 1 x 2-hour fortnightly written expression workshop.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 0%, Practical Examinations= 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100% (30% Oral, 70% Continuous assessment)			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

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IT4004 Communication Skills 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving Italian			
Pre-requisite(s):	IT4003			
Learning and teaching methods and delivery:	Weekly contact: 1 oral class and 1 surgery hour per week and 1 x 2-hour fortnightly written expression workshop.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 30%, Practical Examinations= 30%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 30%, Practical Examination (Oral) = 30%			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

IT4005 Translation Methodology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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).				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R P Wilson			
Lecturer(s)/Tutor(s):	Dr R P Wilson			

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IT4012 Dante Alighieri				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R P Wilson			
Lecturer(s)/Tutor(s):	Dr R P Wilson			

IT4013 Modern Italy through Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

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IT4015 Literary Transvestism in Italian Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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 <i>La bella estate</i> and <i>Tra donne sole</i>, Alberto Moravia's <i>La romana</i> and <i>La ciociara</i>, and Elena Ferrante's <i>L'amore molesto</i>. In addition a number of films will be studied which are relevant to the texts and the theme of transvestism.</p>				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

IT4016 Twentieth-Century Italian Canonical and Anti-Canonical Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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 Belestrelin as voices of the Anti-Canon.</p>				
Programme module type:	Optional for all degrees involving Italian			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

IT4097 20-Credit Dissertation in Italian				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Final year of the Italian and Psychology Honours Programme.			
Planned timetable:	To be arranged.			
<p>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 7,000 - 8,000 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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Italian and Psychology			
Pre-requisite(s):	Entry into Joint Honours Degree in Italian and Psychology			
Anti-requisite(s):	IT4098, IT4099 or dissertation in another subject.			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 7 hours		Guided independent study: 193 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Head of Italian Department			

IT4098 Dissertation on an Italian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Either IT4098 or IT4099 is compulsory for Single Honours Italian			
Anti-requisite(s):	IT4097, IT4099			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Head of Italian Department			

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IT4099 Long Dissertation on an Italian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Either IT4098 or IT4099 is compulsory for Single Honours Italian			
Anti-requisite(s):	IT4097, IT4098, FR4199, GM4099, RU4199, SP4099			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 14 hours		Guided independent study: 286 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Head of Italian Department			

Linguistics (LI) Modules

LI4001 General Linguistics 3: Semantics and Discourse				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only for degrees involving Linguistics			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for 'with Linguistics' Degrees			
Pre-requisite(s):	LI3002 or LI4098	Required for:	LI4002	
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr W R Danks			
Lecturer(s)/Tutor(s):	Dr W R Danks			

LI4002 General Linguistics 4: Languages in Contact				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Availability restrictions:	Available only for degrees involving Linguistics			
Planned timetable:	To be arranged.			
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, Hispano-Romance/Arabic; current contacts studied may include Castilian/Basque/Catalan/Galician, English/the rest of the world.				
Programme module type:	Optional only for degrees involving Linguistics			
Pre-requisite(s):	LI4001 or LI4098			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr K Anipa			
Lecturer(s)/Tutor(s):	Dr K Anipa			

LI4098 Dissertation on a Linguistics Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for 'with Linguistics' Degrees			
Pre-requisite(s):	LI3001 or one of FR3053, GM3080, IT3009, RU3015, RU3107, SP3011			
Required for:	LI4001, LI4002			
Learning and teaching methods and delivery:	Weekly contact: 4 hours.			
	Scheduled learning: 4 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr K Anipa			
Lecturer(s)/Tutor(s):	Dr C Beedham, Dr K Anipa			

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Modern Languages (ML) Modules

ML3105 Modern Languages Integrated Year Abroad				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
<p>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 integrated 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.</p>				
Programme module type:	Optional to any WIYA programme only when student is unable to spend a whole year in one linguistic area			
Pre-requisite(s):	Admission to Honours Programme with Integrated Year Abroad.			
Anti-requisite(s):	FR3103, GM3103, IT3103, RU3103, SP4103 or any Study Abroad	Co-requisite(s):	ML3106	
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: By correspondence.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project = 100% (Project to be submitted to specific language department)			
Module Co-ordinator:	Departmental WIYA Coordinator			

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ML3106 Integrated Year Abroad: Semester 2			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
<p>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 integrated 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.</p>			
Programme module type:	Optional to any WIYA programme only when student is unable to spend a whole year in one linguistic area		
Pre-requisite(s):	Admission to Honours Programme with Integrated Year Abroad.	Anti-requisite(s):	FR3103, GM3103, IT3103, RU3103, SP4103 or any Study Abroad
Co-requisite(s):	ML3105	Required for:	RU3005
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.		
	Weekly contact: By correspondence.		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Project = 100% (Project to be submitted to specific language department)		
Module Co-ordinator:	Departmental WIYA Coordinator		

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ML3201 Grammatical Rules and Lexical Exceptions			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged.		
<p>Grammatical rules and lexical exceptions are considered against the background of Saussurean structuralism and in relation to language teaching. 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-passivisable transitive verbs; and tense formation and strong verbs. The main language of illustration is English, but students of Arabic, French, Italian, Russian and Spanish are encouraged to bring these languages into the discussion.</p>			
Programme module type:	Optional for any Modern Languages programmes		
Pre-requisite(s):	Entry into Honours in at least one of the following languages: Arabic, French, Italian, Russian, Spanish		
Anti-requisite(s):	LI3001, GM3080		
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 module surgery hour.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr C Beedham		
Lecturer(s)/Tutor(s):	Dr C Beedham		

Russian (RU) Modules

RU3001 Advanced Russian Language 1, Part 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	RU3001 or RU3005 is compulsory for all Russian degrees			
Anti-requisite(s):	RU3005	Required for:	RU3002	
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 60%, Practical Examinations= 15%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Practical Test = 15%, Written Examination = 60%			
Module Co-ordinator:	Dr O L G Smith			

RU3002 Advanced Russian Language 1, Part 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	RU3002 or RU3110 is compulsory for all Russian degrees unless a semester abroad is taken			
Pre-requisite(s):	RU3001	Anti-requisite(s):	RU3110	
Required for:	RU4101			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 60%, Practical Examinations= 15%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Practical Test = 15%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr O L G Smith			

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RU3005 Advanced Russian Translation 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	RU3001 or RU3005 is compulsory for all Russian degrees, except Russian and a second language and a third subject			
Pre-requisite(s):	RU3101 or ML3106 in Russia.	Anti-requisite(s):	RU3001	
Required for:	RU3110			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 60%, Practical Examinations= 15%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Practical Examination = 15%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R J Keys			

RU3024 A Special Russian Author of the Nineteenth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Either
Planned timetable:	To be arranged.			
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. Authors offered may include: Pushkin, Gogol, Tolstoy, Dostoevsky, or Chekhov, examining especially those works that are not covered in sub-honours modules. Independent study will form a major element of the module.				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Test = 20%			
Module Co-ordinator:	Dr E Finer			
Lecturer(s)/Tutor(s):	Dr E Finer			

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RU3025 Russian Fiction 1880 - 1917				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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 1890's to the Bolshevik Revolution. It focuses on the fiction of leading realist and neo-realist writers, including Chekhov, Gorkii, Sologub, Andreev and Bunin. All works are studied in Russian.				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R J Keys			
Lecturer(s)/Tutor(s):	Dr R J Keys			

RU3041 Early Nineteenth-Century Russian Intellectual History				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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 first half of the nineteenth century. The most important representatives of the Russian intelligentsia of the period are studied, including the Slavophiles and Westernisers, the Decembrists, and early representatives of Russian religious thought.				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Test - assessed in-class presentation = 20%			
Module Co-ordinator:	Dr O L G Smith			
Lecturer(s)/Tutor(s):	Dr O L G Smith			

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RU3101 Russian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
The objective of the module is language learning and cultural familiarisation through a study placement in Russia. Placements will be as students in Russian at a Foreign Language department at universities or in Language Schools. Formal learning and assessment are through a supervised project chosen in consultation with the module co-ordinator, who will provide more detailed guidelines. The project essay will be 4,000 words in Russian to be received in the Department by May 4th.				
Programme module type:	Compulsory for all degrees involving Russian with Integrated Year Abroad			
Pre-requisite(s):	Admission to the Honours Programme with Integrated Year Abroad			
Anti-requisite(s):	RU3102, RU3103 or Erasmus exchange.	Required for:	RU3005	
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project Essay = 100%			
Module Co-ordinator:	Dr O L G Smith			

RU3102 Semester of Study in Russia				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Planned timetable:	Please Contact Department			
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 4,000 words in Russian to be received by the Department by July 15th. The examination is sat in Week 1 of the first semester of the following academic year. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for all degrees involving Russian with an approved semester abroad			
Anti-requisite(s):	RU3101, RU3103	Required for:	RU4101	
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: up to 20 hours depending on agreement with Russian institution.			
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: Dissertation in Russian = 50%, Coursework = 25%, 2-hour Written Examination = 25%			
Module Co-ordinator:	Dr O L G Smith			

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RU3103 Self-Access Summer in Russia				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	summer
Planned timetable:	Please Contact Department			
<p>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 2,500 words in Russian must be submitted by September 10th of the year in which the residence takes place.</p>				
Programme module type:	Optional for Single Honours Russian			
Anti-requisite(s):	RU3101, RU3102			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Please Contact Department			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project Essay = 100%			
Module Co-ordinator:	Dr O I G Smith			

RU3110 Advanced Russian Translation 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	RU3002 or RU3110 is compulsory for all Russian degrees unless a semester abroad is taken			
Pre-requisite(s):	RU3005	Anti-requisite(s):	RU3002	
Required for:	RU4101			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 oral class.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 60%, Practical Examinations= 15%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Practical Test = 15%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R J Keys			

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RU4101 Advanced Russian Language 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	To be arranged.		
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, RU3102 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.			
Programme module type:	Compulsory for all degrees involving Russian		
Pre-requisite(s):	RU3002 or RU3102 or RU3110		
Required for:	RU4102, RU4104, RU4106		
Learning and teaching methods and delivery:	Weekly contact: 1 language class and 1 oral class.		
	Scheduled learning: 44 hours	Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations= 60%, Practical Examinations= 15%, Coursework = 25%		
	As used by St Andrews: Coursework = 25%, Practical Test = 15%, 2-hour Written Examination = 60%		
Module Co-ordinator:	Dr O L G Smith		
Lecturer(s)/Tutor(s):	Dr O L G Smith		

RU4102 Advanced Russian Oral Skills			
SCOTCAT Credits:	Zero	SCQF Level 10	Semester: 2
Planned timetable:	To be arranged.		
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.			
Programme module type:	Optional for all degrees involving Russian		
Pre-requisite(s):	RU4101	Anti-requisite(s):	RU4104
Learning and teaching methods and delivery:	Weekly contact: 1-hour oral class and 1 surgery hour.		
Assessment pattern:	As defined by QAA: Written Examinations= 0%, Practical Examinations= 100%, Coursework = %		
	As used by St Andrews: Practical Examination = 100%		
Module Co-ordinator:	Dr O L G Smith		

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RU4104 Russian Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module aims to give students confidence in communicating in Russian in a range of contexts, both spoken and written. Classes follow a given theme each week, on which are based student debates, role-plays and written work. Particular attention is given to the expression of emotional and attitudinal standpoints with concrete applications to everyday social situations.				
Programme module type:	Compulsory for all degrees involving Russian, except Three-Subject degrees			
Learning and teaching methods and delivery:	Weekly contact: 1-hour oral class, 1 surgery hour, 1-hour video class or written work.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Oral Examinations= 40%, Audio-visual Examinations= 20%			
Module Co-ordinator:	Dr O L G Smith			

RU4128 Soviet Literature 1940 - 1991				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R J Keys			
Lecturer(s)/Tutor(s):	Dr R J Keys			

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RU4130 Issues in Russian Cultural Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
<p>This module investigates contemporary Russian culture and society by examining its relationship with the Soviet past, the institutions of memory that mediate this relationship and the cultural practices that inform it. Students will be introduced to a number of critical ideas in memory scholarship, including 'sites of memory' [lieux de mémoire], institutions of memory, the falsification of memory, collective amnesia, aphasia, and others. While the module focuses on issues in Russian cultural memory, particularly memory of the post-Stalin and perestroika eras, the theory and criticism studied ranges more widely, including French and British theorists and practitioners. In seminars, students will engage with memoirs, diaries, oral testimony, films, documentaries, and online archives to explore the narrative and aesthetic consequences of the historicising impulse in contemporary Russian culture.</p>				
Programme module type:	Optional for Russian			
Learning and teaching methods and delivery:	Weekly contact: Seminars and occasional lectures, tutorials and film viewing.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr V Donovan			

RU4140 The Russian Silver Age: Art and Time				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Planned timetable:	To be arranged.			
<p>This module examines a number of key works in music, literature, visual arts, philosophy and poetry from Russia's so-called 'Silver Age'. All the artists studied are united by a fascination with time, and the role of art in the life of historical humanity. Students not only gain a detailed knowledge of the works under consideration, but also of the creative processes that gave birth to them. By looking at the creator's understanding of her work, and of the fate of that work in the world around her, students will gain an invaluable insight into the ideas and impulses behind one of the most exciting periods in European art.</p>				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 80%, Practical Test = 20%			
Module Co-ordinator:	Dr O L G Smith			
Lecturer(s)/Tutor(s):	Dr O L G Smith			

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RU4198 Dissertation on a Russian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Either
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Anti-requisite(s):	RU4199			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr O L G Smith			

RU4199 Long Dissertation a Russian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Single Honours Russian			
Anti-requisite(s):	RU4198, SP4099, IT4099, FR4199, GM4099			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	Scheduled learning: 28 hours		Guided independent study: 272 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr O L G Smith			

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Spanish (SP) Modules

SP3001 Spanish Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged.			
The 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 and listening comprehension, precis and writing and rewriting exercises. The grammar involves a full understanding of an array of issues dealt with by Butt and Benjamin.				
Programme module type:	Compulsory for all degrees involving Spanish			
Pre-requisite(s):	SP2002 or SP2004 with grade 11 or better			
Co-requisite(s):	SP3221 for Single, Major and Joint Spanish programmes	Required for:	SP3002	
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Practical Examination = 40%			
Module Co-ordinator:	Dr G San Román			

SP3002 Spanish Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged.			
The 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.)				
Programme module type:	Compulsory for all degrees involving Spanish			
Pre-requisite(s):	SP3001			
Co-requisite(s):	SP3222 for Single, Major and Joint Spanish programmes	Required for:	SP4003, SP4102, SP4103	
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr J Letrán			
Lecturer(s)/Tutor(s):				

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SP3006 Literary Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 10.30 am Wed.			
<p>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.</p>				
Programme module type:	1 of SP3006, SP3007, SP3011, SP4008 or SP4012 is compulsory for Single Honours Spanish. Optional for all other degrees involving Spanish, once compulsoriness have been taken.			
Anti-requisite(s):	SP3007			
Learning and teaching methods and delivery:	Weekly contact: Seminar and 1 surgery hour.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr G San Román			

SP3011 History of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	2.00 pm - 3.30 pm Fri.			
<p>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.</p>				
Programme module type:	1 of SP3006, SP3007, SP3011, SP4008 or SP4012 is compulsory for Single Honours Spanish. Optional for all other degrees involving Spanish, once compulsoriness have been taken.			
Required for:	LI3002, LI4098			
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 surgery hour.			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Anipa			

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SP3101 Spanish Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
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 25 April.				
Programme module type:	Compulsory for all degrees involving Spanish with Integrated Year Abroad			
Pre-requisite(s):	Admission to the Honours Programme with Integrated Year Abroad.			
Anti-requisite(s):	SP4102, SP4103 or Erasmus exchange.			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Project = 100%			
Module Co-ordinator:	Mr B P E Bentley			

SP3122 Spanish American Literature 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 10.30 am Wed.			
The aim of the module is to study a topic or genre in Spanish American literature. The module includes texts which are not particularly Latin American in their depiction of historical or cultural aspects of the continent, such as modernismo, River Plate cosmopolitanist literature or the novel of the Boom. The selection is likely to include three or four works by the following authors: Borges, Onetti, Cortazar, Donoso, Sabato, Garcia Marquez, Rosario Castellanos, Alfonsina Storni, Juana de Ibarbourou. Apart from general and historical introductions, the course proceeds on the basis of seminar papers by students.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees			
Learning and teaching methods and delivery:	Weekly contact: 10 x 1.5-hour seminars and 1 surgery hour.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr G San Román			

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SP3138 Mexico in the Nineteenth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am - 12.30 pm Wed.			
<p>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 Diaz. Reading will include primary material such as letters, speeches and articles from the Mexican press as well as secondary historical studies of the period.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees			
Learning and teaching methods and delivery:	Weekly contact: Seminar and 1 surgery hour.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof W M Fowler			

SP3159 Gender and Violence in Golden Age Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	3.00 pm - 4.30 pm Tue.			
<p>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. Maria de Zayas, Miguel de Cervantes), theatre (e.g. Cervantes, Lope, Calderon) 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.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees			
Learning and teaching methods and delivery:	Weekly contact: Seminar and 1 surgery hour.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr H A N Partzsch			

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SP3160 Facing the News: Spanish Literature and Society (1888-1918)			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Planned timetable:	11.00 am - 12.30 pm Wed.		
<p>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 Jos? Martinez Ruis 'Azorin') as well as the cultural and artistic life of the times through the analysis of literary magazines.</p>			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees		
Learning and teaching methods and delivery:	Weekly contact: Seminar and 1 surgery hour.		
	Scheduled learning: 26 hours	Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr R Fernández Romero		

SP3221 Language, Conflict and Society			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Planned timetable:	9.00 am Tue plus 1 seminar per week, to be arranged.		
<p>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. The reading list will be available online as from the preceding month of May.</p>			
Programme module type:	Compulsory for Single, Major and Joint Spanish programmes. Optional for Three Subject degrees including Spanish.		
Co-requisite(s):	SP3001 for Single, Major and Joint Spanish programmes		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examination s= 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr G San Román		

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SP3222 Language, Love and Loss				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am Tue, plus 1 seminar to be arranged.			
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. The reading list will be available online as from the preceding month of May.				
Programme module type:	Compulsory for Single, Major and Joint Spanish programmes. Optional for Three Subject degrees including Spanish.			
Co-requisite(s):	SP3002 for Single, Major and Joint Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr J Letrán			

SP4003 Spanish Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving Spanish. SP4003 or SP4103 is a compulsory for Two language degrees with a third subject outwith the School of Modern Languages or Minor degrees 'with Spanish'.			
Pre-requisite(s):	SP3002 (see Honours Adviser if there is a problem).		Anti-requisite(s):	SP4102, SP4103
Co-requisite(s):	SP4223 for Single and Major Spanish programmes		Required for:	SP4004
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Practical Examination = 40%			
Module Co-ordinator:	Dr R Fernández Romero			

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SP4004 Spanish Language 4: Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged.			
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.				
Programme module type:	Compulsory for all degrees involving Spanish.			
Pre-requisite(s):	SP4003, SP4103 or SP4102			
Co-requisite(s):	SP4224 for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Aural Comprehension = 30%, Oral Examination = 30%			
Module Co-ordinator:	Dr R Fernández Romero			

SP4008 Contemporary Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am Thu.			
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.				
Programme module type:	1 of SP3006, SP3007, SP3011, SP4008 or SP4012 is compulsory for Single Honours Spanish Optional for all other degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees.			
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 surgery hour.			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Prof W M Fowler			

SP4012 Linguistic Study of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	2.00 pm - 3.30 pm Mon.			
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.				
Programme module type:	One of SP3006, SP3007, SP3011, SP4008 or SP4012 is compulsory for Single Honours Spanish Optional for all other degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees.			
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 surgery hour.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Anipa			

SP4098 Dissertation on a Spanish Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 & 2 (taught twice)
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	SP4098 or SP4099 is required for Single Honours Spanish. Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees.			
Learning and teaching methods and delivery:	Weekly contact: 3 all-group seminars plus up to 5 individual sessions with your supervisor, as necessary.			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Prof N R Dennis			

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SP4099 Long Dissertation on a Spanish Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2012/3		
Availability restrictions:	Available only to Single Honours students in the Final year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Programme module type:	SP4098 or SP4099 is required for Single Honours Spanish and students taking SP4102. SP4003 or SP4103 or (SP4102 with SP4099) is compulsory for all degrees involving Spanish.		
Anti-requisite(s):	SP4098 or dissertation in another subject		
Learning and teaching methods and delivery:	Weekly contact: 3 all-group seminars plus up to 10 individual sessions with your supervisor spread over the 2 semesters, as necessary.		
	Scheduled learning: 28 hours	Guided independent study: 272 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Module Co-ordinator:	Prof N R Dennis		

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SP4102 Semester with Study Abroad in Spain				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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 Erasmus 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 an Erasmus year. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	SP4003 or SP4103 or (SP4102 with SP4099) is compulsory for all degrees involving Spanish. Optional for all other degrees involving Spanish, except Minor 'with Spanish' degrees.			
Pre-requisite(s):	SP3002	Anti-requisite(s):	SP4003, SP4103	
Co-requisite(s):	SP4099	Required for:	SP4004	
Learning and teaching methods and delivery:	Weekly contact: This is a Study Abroad or Work Placement Module.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Kefala			

SP4103 Residential Project in Spanish-Speaking Country				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	Please Contact Department			
<p>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 SP4223. The project will not exceed 6,000 words, although recorded material and its transcription may be supplementary.</p>				
Programme module type:	SP4003 or SP4103 or (SP4102 with SP4099) is compulsory for all degrees involving Spanish.			
Pre-requisite(s):	SP3002			
Anti-requisite(s):	SP4003, SP3101, SP4102	Required for:	SP4004	
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
	Weekly contact: Please Contact Module Co-ordinator and Department			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project = 100%			
Module Co-ordinator:	Mr B P E Bentley			

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SP4223 Language, History and Culture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am Tue, plus 1 seminar to be arranged.			
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. The reading list will be available online as from the preceding month of May.				
Programme module type:	Compulsory for Single Honours Spanish. One of SP4223 or SP4224 is compulsory for Joint Honours Spanish, Spanish and Classics.			
Anti-requisite(s):	SP4102			
Co-requisite(s):	SP4003 or SP4103 for Single, Major and Joint Spanish programmes.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R Fernandez Romero			

SP4224 Language, Reality and Illusion				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am Tue, plus 1 seminar to be arranged.			
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. The reading list will be available online as from the preceding month of May.				
Programme module type:	Compulsory for Single Honours Spanish. One of SP4223 or SP4224 is compulsory for Joint Honours Spanish, Spanish and Classics.			
Co-requisite(s):	SP4004 for Single, Major and Joint Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr R Fernández Romero			

School of Philosophical, Anthropological & Film Studies

Including: Film Studies, Music, Philosophy and Social Anthropology

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

Exchange schemes: 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.

Film Studies - Joint Honours M.A.

Film Studies and one of: Ancient History, Arabic ^W, Art History, Biblical Studies, Classical Studies, Comparative Literature, Economics, English, French ^W, Geography, German ^W, International Relations, Italian ^W, Modern History, Philosophy, Psychology ^B, Russian ^W, Scottish History, Social Anthropology, Spanish ^W or Theological Studies

^B For programmes with BPS recognition, see separate entry below.

^W Available also as 'With Integrated Year Abroad' degree

Film Studies element of Joint M.A. Honours:

First Year: 40 credits: FM1001 **and** FM1002.

Second Year: 40 credits: FM2001 **and** FM2002 - with passes at 11 or better in both.

Third Year: 30 credits: FM4106 **or** FM4107;

30 further credits in one of: FM4100 - FM4899.

Fourth Year: 60 further credits in two of: FM4000 - FM4899.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

With the permission of the Director of Teaching of Film Studies and the relevant Head of School, students may substitute 30 credits from a third subject for 30 4000-level Film Studies credits.

Film Studies - Joint Honours M.A.

Film Studies and Psychology (with BPS recognition)

Film Studies element of Film Studies and Psychology Joint Honours M.A. (with BPS recognition):

First Year: 40 credits: FM1001 **and** FM1002.

Second Year: 40 credits: FM2001 **and** FM2002 - with passes at 11 or better in both.

Third Year: 30 credits: FM4106 **or** FM4107;

Up to 30 further credits: FM4100 - FM4899.

Fourth Year: Further credits: FM4100 - FM4899, to a total of 90 credits from this range across Third and Fourth Years.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

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... 'with' Film Studies - Honours M.A.

Psychology with Film Studies (available only to students already enrolled in this programme)

Film Studies Minor element of M.A. Honours 'with' degree:

First Year: 40 credits: FM1001 **and** FM1002.

Second Year: 40 credits: FM2001 **and** FM2002 - with passes at 11 or better in both.

Third Year: 30 credits: FM4106 **or** FM4107;

Fourth Year: 30 further credits in one of: FM4000 - FM4899.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

Philosophy - Single Honours M.A.

First and Second Years:

20 credits: PY1006;

40 credits: PY2000 - PY2103 - with passes at grade 11 or better in both/all;

20 further credits: PY1001 - PY1199, PY2000 - PY2103.

Third and Fourth Years:

60 credits: PY3701 **and** PY3702;

180 credits: PY4000 - PY4689, (PY4698 **or** PY4699 - in Fourth Year only), CL4444, CL4452, ID4801, ID4859, (PY4701 **with** ID4002 - in Fourth Year only). Up to 30 of these credits may be substituted for credits from another subject area and/or level, provided that permission is obtained from the relevant Head of School.

Philosophy - Joint Honours M.A.

Philosophy and one of: Ancient History, Arabic^w, Art History, Biblical Studies, Classical Studies, Classics, Comparative Literature, Economics, English, Film Studies, French^w, Geography, German^w, Greek, International Relations, Italian^w, Latin, Management, Mathematics, Mediaeval History, Modern History, Psychology, Russian^w, Scottish History, Social Anthropology, Spanish^w, Statistics, Theological Studies^w
^w Available also as 'With Integrated Year Abroad' degrees.

Philosophy element of Joint M.A. Honours:

First and Second Years:

20 credits: PY1006;

40 credits: PY2000 - PY2103 - with passes at grade 11 or better in both/all;

20 further credits: PY1001 - PY1199, PY2000 - PY2103.

Third and Fourth Years:

30 credits: PY3701 **or** PY3702;

60 further credits: PY3701, PY3702, PY4000 - PY4689, (PY4698 **or** PY4699 - in Fourth Year only), CL4444, CL4452, ID4801, ID4859, (PY4701 **with** ID4002 - in Fourth Year only).

In total, 210 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Logic & Philosophy of Science - Joint Honours B.Sc.

Logic & Philosophy of Science and one of: Biology, Computer Science, Mathematics, Physics, Statistics.

Logic & Philosophy of Science element of Joint Honours B.Sc.:

First and Second Years:

20 credits: PY1006;

20 credits: PY2001 **and** PY2002 - with passes at 11 or better in both;

20 credits: PY1005 **or** PY1105 **or** PY1106 **or** PY2003 - PY2103.

Third and Fourth Years:

30 credits: PY3701;

60 credits: PY3702, PY4000 - PY4689, (PY4698 **or** PY4699 - in Fourth Year only), CL4444, CL4452, ID4801, ID4859, (PY4701 **with** ID4002 - in Fourth Year only).

In total, 210 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.

Social Anthropology - Single Honours M.A.

First Year:	40 credits: SA1001 and SA1002.
Second Year:	40 credits: SA2001 and SA2002 - with passes at grade 11 or better in both.
Third Year:	90 credits: SA3000 - SA3999; 30 further credits: SA3000 - SA4089, SA4100 - SA4899, except that with the permission of the Director of Teaching and the relevant Head of School, these credits may be taken from another subject. <i>(SA3506 must be taken if the student wishes to take SA4099 in Fourth Year.)</i>
Fourth Year:	30 credits: SA4098 - SA4099; 60 credits: SA4000 - SA4089, SA4100 - SA4899; 30 further credits: SA3000 - SA4899.

Social Anthropology - Joint Honours M.A.

Social Anthropology and one of: Ancient History, Arabic ^W, Art History, Classical Studies, Classics, Comparative Literature, Economics, English, Film Studies, French ^W, Geography, German ^W, Greek, International Relations, Italian ^W, Latin, Mediaeval History, Middle East Studies, Modern History ^T, Philosophy, Psychology, Russian ^W, Scottish History, Spanish ^{W,T}, Theological Studies.
^T Timetable clash exists therefore this combination is subject to arrangement with both departments.
^W Available also as 'With Integrated Year Abroad' degree

Social Anthropology element of M.A. Joint Honours

(except Psychology and Social Anthropology with BPS recognition):

First Year:	40 credits: SA1001 and SA1002.
Second Year:	40 credits: SA2001 and SA2002 - with passes at grade 11 or better in both.
Third Year:	30 credits: SA3000 - SA3999; 30 further credits: SA3000 - SA4089, SA4100 - SA4899. <i>(SA3506 must be taken if the student wishes to take SA4099 in Fourth Year.)</i>
Fourth Year:	60 credits: SA4000 - SA4899.
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

Social Anthropology element of Psychology and Social Anthropology

- Joint Honours M.A. (with BPS recognition):

First Year:	40 credits: SA1001 and SA1002.
Second Year:	40 credits: SA2001 and SA2002 - with passes at grade 11 or better in both.
Third and Fourth Years:	90 credits: SA3000 - SA3999, SA4000 - SA4899. <i>(SA3056 must be taken in Third Year if the student wishes to take SA4099 in Fourth Year.)</i>
In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

Social Anthropology 'with'... - Honours M.A.	
Social Anthropology with either Geography or Linguistics* * This combination is not available for entrant students after 2009-10	
Social Anthropology Major element of M.A. Honours 'with' degree: First Year: 40 credits: SA1001 and SA1002. Second Year: 40 credits: SA2001 and SA2002 - with passes at grade 11 or better in both. Third Year: 60 credits: SA3000 - SA3999; 30 further credits: SA3000 - SA4089, SA4100 - SA4899. <i>(SA3506 must be taken if the student wishes to take SA4099 in Fourth Year.)</i> Fourth Year: 30 credits: SA4098 - SA4099; 30 credits: SA4000 - SA4089, SA4100 - SA4899; 30 further credits: SA3000 - SA3999, SA4000 - SA4089, SA4100 - SA4899. In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	
... 'with' Social Anthropology - Honours M.A.	
Economics with Social Anthropology, Geography with Social Anthropology	
Social Anthropology Minor element of M.A. Honours 'with' degree: First Year: 40 credits: SA1001 and SA1002. Second Year: 40 credits: SA2001 and SA2002 - with passes at grade 11 or better in both. Third Year: 30 credits: SA3000 - SA3499; Fourth Year: 30 credits: SA4000 - SA4089, SA4100 - SA4899. In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.	

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.

Film Studies (FM) Modules

FM4099 Film Studies Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Academic year:	2012/3			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Film Studies			
Anti-requisite(s):	Any other 4000-level dissertation module			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus individual meetings with supervisor			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof R Burgoyne			
Lecturer(s)/Tutor(s):	Prof R Burgoyne			

FM4104 Film and History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module will bring together the study of historiography with an investigation of feature and documentary film-making 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.</p>				
Programme module type:	Optional for Film Studies			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			

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FM4106 War and Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>The war film is one of the great modes of cinematic expression, with outstanding examples of the genre stretching from the early silent period to the contemporary era. In this module, we will explore the chronological history of the War Film, beginning with reenactments and actualities from the Spanish-American War, proceeding through treatments of World War I such as All Quiet on the Western Front, and continuing with films such as Apocalypse Now, Waltz with Bashir, and The Hurt Locker. Students will gain knowledge and awareness of the links between the history of cinema and the development of optical weaponry, the different ways the body of the soldier has been represented in war, and the shaping of cultural memory in film.</p>				
Programme module type:	Optional for Film Studies			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof R Burgoyne			

FM4107 Cinema and Nation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	Seminars: 10.00 am - 12.00 noon Mon, Screenings: 7.00 - 10.00 pm Fri.			
<p>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 conceptualised 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.</p>				
Programme module type:	Optional for Film Studies			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			

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FM4205 Scotland and Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am - 12.00 noon Mon.			
<p>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.</p>				
Programme module type:	Optional for Film Studies			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D Martin-Jones			

FM4304 Film and Sexual Identities				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	10.00 am - 12.00 noon Mon.			
<p>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' 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).</p>				
Programme module type:	Optional for Film Studies			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Girelli			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012
InterDisciplinary (ID) Modules

ID4002 Communication and Teaching in Arts and Humanities				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the Schools of Divinity, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.			
Planned timetable:	To be arranged.			
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.				
Programme module type:	Optional for Divinity, Geography, History, International Relations, Modern Languages or Philosophy.			
Co-requisite(s):	If taken within Divinity, History, International Relations or Philosophy, a further 15-credit subject-specific module may be required.			
Learning and teaching methods and delivery:	Weekly contact: The module commences with an Induction Event at the University (3 hours). Students spend a minimum of 20 hours during the semester at their placement. 3 x 1-hour tutorials are held at the University during the semester. The module concludes with an oral presentation session.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100% comprising: Written project proposal (10%) + written report (35%) = 45% Oral presentation (at University, assessed by module lecturers) = 30% A further 25% of Coursework is in the form of a report by their placement-mentor on the student's practical performance in the classroom on placement.			
Module Co-ordinator:	Dr E Stoddart			

Philosophy (PY) Modules

PY3701 Language and Reality				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Wed (seminar time to be arranged).			
<p>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?</p>				
Programme module type:	Compulsory for Single Honours Philosophy. At least one of PY3701 and PY3702 is a compulsory for Joint Honours Philosophy, Logic and Philosophy of Science.			
Required for:	PY4617			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			
Module Co-ordinator:	Dr E Glick			

PY3702 Value and Normativity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Mon (seminar time to be arranged).			
<p>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. Particular attention will be paid to the nature of moral claims.</p>				
Programme module type:	Compulsory for Single Honours Philosophy. At least one of PY3701 and PY3702 is a compulsory for Joint Honours Philosophy, Logic and Philosophy of Science.			
Anti-requisite(s):	PY3102, PY4619			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			

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PY3999 Special Topic in Philosophy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Availability restrictions:	Available only to Colgate University students.			
Planned timetable:	To be arranged.			
To be confirmed (module taught by member of Colgate Faculty).				
Pre-requisite(s):	2 courses from Colgate University			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: Determined annually by Colgate Staff			
Module Co-ordinator:	Colgate Staff representative TBC			
Lecturer(s)/Tutor(s):	Colgate Staff representative TBC			

PY4601 Paradoxes				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
Tensions in our understanding of our concepts and the world can often give rise to paradoxes: situations where we are led from considerations we accept and may even find obvious to conclusions which we find very surprising or even ridiculous. Probably the best way to get a feel for how to deal with paradoxes and the issues which lie behind them is to examine a variety of paradoxes, both ancient and contemporary.				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY3701 or PY2002 (pre-or co-requisite(s))			
Co-requisite(s):	PY3701 or PY2002 (pre- or co-requisite(s))			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			
Module Co-ordinator:	Dr P Greenough			
Lecturer(s)/Tutor(s):	Dr P Greenough			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012

PY4608 Political Philosophy in the Age of Revolutions				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module provides a history of the development of western political philosophy. The module examines the philosophical ideas that influenced events during the modern period of political revolutions (roughly construed as mid 17th Century to early 20th Century). The Revolutions covered will include the British Civil War, The Glorious Revolution, The American Revolution, the French Revolution and the disturbances of the 1840s. In each case the focus will be on the texts and concepts from political philosophy that shaped the expressed ideology of the revolutionary movements. The module will also examine how these ideas were codified in key documents such as the US Constitution, and how once revolutionary philosophies transformed into defences of the status quo following success in securing political power.</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			
Module Co-ordinator:	Dr C Smith			
Lecturer(s)/Tutor(s):	Dr C Smith			

PY4617 The Philosophy of Saul Kripke				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>The purpose of this module is to explore the work and influence of contemporary philosopher Saul Kripke. Topics may include the semantics and meta-semantics of names, the semantics of attitude attributions, the metaphysics of modality, the use of possible worlds in semantics, epistemic possibility, fiction and non-existence, identity over time, rule-following and private language, and the mind-body problem.</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY3701			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Glick			
Lecturer(s)/Tutor(s):	Dr E Glick			

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PY4618 Animals, Minds and Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module will focus on philosophical issues related to the attribution of mental states to non-human animals. Do animals have minds? How can we know about them? In what ways are the mental abilities of animals similar to or different from our own? Topics to be discussed may include: are animals rational? To what extent can beliefs and other mental states be attributed to simple creatures such as insects? Can animals feel pain? Can simple creatures feel pain? How can we know whether they do? Do animals have emotions? Do animals have language and culture, or are these distinctively human capacities?</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Scheduled Written Examination = 30%			
Module Co-ordinator:	Dr D Ball			
Lecturer(s)/Tutor(s):	Dr D Ball			

PY4619 Social Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module is an introduction to contemporary issues and arguments in social philosophy. It will provide some historical introduction and an account of certain key concepts, such as public versus private and individual versus common goods. It will then engage a number of areas of social life and action (such as, for instance, culture, art, economics, law, education, environment) examining contested values and policies. The broad orientation is towards 'practical philosophy'.</p>				
Programme module type:	Optional for Philosophy			
Pre-requisite(s):	PY3702 (pre-or co-requisite)			
Co-requisite(s):	PY3701 (pre- or co-requisite)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof J Haldane			
Lecturer(s)/Tutor(s):	Prof J Haldane			

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PY4620 Virtue and Vice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module investigates philosophical questions related to the evaluation of character. It asks what virtue and vice consist in, and how questions of the evaluation of character interact with questions about what is morally right or wrong. It examines the influential late twentieth-century critique of consequentialist and deontological theories by philosophers such as Elizabeth Anscombe, Bernard Williams and Alisdair McIntyre, and the modern virtue ethical approaches to morality which emerged in response to this critique. The module examines a variety of approaches to virtue and the evaluation of character, from the views of the Ancients, to Hume, Kant and Mill, and onto contemporary accounts. It also considers the implications of recent empirical work on character.</p>				
Programme module type:	Optional for Philosophy			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			
Module Co-ordinator:	Dr B McElwee			
Lecturer(s)/Tutor(s):	Dr B McElwee			

PY4622 Kant's Critical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>The purpose of this module is twofold. First, it examines the foundations of Kant's critical philosophy, often called 'transcendental idealism'. For this purpose, we shall read selections from Kant's Prolegomena (1783). Secondly, it will explore one of the three 'Critiques' Kant wrote as examples of this system: either (i) The Critique of Pure Reason (1781/87, describing the 'Copernican Turn' in Metaphysics and Epistemology), (ii) the Critique of Practical Reason (1788, a further exploration of the ethical theory of categorical commands as familiar from the Groundwork) or (iii) the Critique of Judgement (1790, Kant's theory of art and aesthetic judgement).</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Anti-requisite(s):	PY4811			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			

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PY4624 Philosophy of Art				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>What makes an object a work of art? Are artworks always physical objects, or can they be mental, or abstract, entities? Can good art be morally bad? This module examines some of the fundamental contemporary debates in philosophy of art, including issues concerning the nature and definition of art, problems regarding representation and expression (how exactly do works of art represent, or express anything?), the relation of art to ethics, and the value of art. In the course of addressing these issues, we will read the work of aestheticians from ancient times to the present day.</p>				
Programme module type:	Optional for Philosophy			
Anti-requisite(s):	PY4812			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Take-Home Examination = 40%			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Dr L Jones			

PY4626 Life and Death				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>How should we think about moral problems concerning life and death? Choices about whose life to save and whom to allow to die have to be made, in health services and elsewhere. Some actions which aim at good ends will endanger lives. How should we think about decisions such as these? This module is not a 'moral problems' module. Instead it deals with the following general questions concerning life and death: Is death bad? In virtue of what is life good? Is there a morally significant difference between killing and letting die, or between intending someone's death and merely foreseeing it? On what principles would one choose between lives, when the choice is forced? How should future lives be taken into account in present decisions?</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Anti-requisite(s):	PY4826			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, Take-Home Examination = 40%			
Module Co-ordinator:	Dr B Sachs			
Lecturer(s)/Tutor(s):	Dr B Sachs			

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PY4634 Philosophy of Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
The module covers philosophical issues that arise in connection with the foundation of logic. These include questions like "What is the correct logic, and how would we know?"; questions about how to understand what truth is, and paradoxes that arise from trying to provide a consistent account of truth; questions about how to handle vagueness in a logical system; and questions about the nature of possibility and necessity.				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY3701	Anti-requisite(s):	PY4804	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Module Co-ordinator:	Dr A Cotnoir			
Lecturer(s)/Tutor(s):	Dr A Cotnoir			

PY4642 Trust, Knowledge and Society				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
Traditional epistemology often focuses on the individual knower in isolation. In contrast, this module explores the ways in which our relations to other people affect what we can know. We begin by focusing on trust and testimony. Under what conditions can we obtain knowledge from one another? Do we need prior evidence of other people's trustworthiness, or can we take what they say at face value? Do we have a moral obligation to take other people seriously as informants? Can groups of people collectively know something even if none of the individual members knows it? Moving on, we will discuss the following questions: do we require less evidence to trust those with whom we have special relationships of love and friendship? If I learn that another "epistemic peer" disagrees with me, must I revise my belief, or may I stick to my guns? Can two people who confront the same evidence rationally form different beliefs? To what extent can there be non-evidential reasons to believe, as opposed to non-evidential causal effects on belief?				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			
Module Co-ordinator:	Prof J Brown			
Lecturer(s)/Tutor(s):	Prof J Brown, Professor K Hawley			

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PY4643 Philosophy of Law				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
The purpose of this module is to explore such topics in and concerning law as the nature of law; legal reasoning; the justification of punishment; the proper scope of the criminal law (with particular attention to paternalism and legal moralism); the principles of criminal liability and mens rea issues; justifications and excuses; and specific defences in the criminal law such as self-defence and the heat of passion defence.				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Scheduled Written Examination = 50%			
Module Co-ordinator:	Prof M Baron			
Lecturer(s)/Tutor(s):	Prof M Baron			

PY4698 Dissertation (Whole Year)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2012/3			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
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 Semester One.				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	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(s):	PY3803, PY4699, PY4802			
Learning and teaching methods and delivery:	Weekly contact: Monthly supervision meetings over 2 semesters; fortnightly surgery hour; initial 2-hour research skills session.			
	Scheduled learning: 19 hours		Guided independent study: 281 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Individual supervision			

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PY4699 Dissertation in Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either
Academic year:	2012/3			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
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 Semester One.				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	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(s):	PY3803, PY4698, PY4802			
Learning and teaching methods and delivery:	Weekly contact: Fortnightly supervision meetings over 1 semester; weekly surgery hour; initial 2-hour research skills session.			
	Scheduled learning: 19 hours		Guided independent study: 281 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Individual supervision			

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PY4701 Philosophy and Pedagogy			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2012/3		
Availability restrictions:	Available only to students taking ID4002 in same semester.		
Planned timetable:	Not Applicable.		
This module is a complement to ID4002 - Communication and Teaching in Arts & Humanities (a placement module in which students gain substantial experience of a working educational environment, and of communicating philosophical ideas or themes to school pupils). In this module, students will have the opportunity to carry out further study into the place of philosophy in education and/or the role of philosophy in teaching. This is a guided self-study module, which will be supervised by a member of philosophy staff. It is available only to participants in ID4002.			
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science		
Co-requisite(s):	ID4002		
Learning and teaching methods and delivery:	Weekly contact: Fortnightly supervision sessions.		
	Scheduled learning: 6 hours	Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof J J Haldane		
Lecturer(s)/Tutor(s):	Prof J J Haldane		

Social Anthropology (FM) Modules

SA3021 Amerindian Language and Culture			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Planned timetable:	To be arranged.		
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.			
Programme module type:	Optional for Social Anthropology		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Examination or Take-Home Examination = 50%		

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SA3031 Anthropological Study of Language and Culture				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Prof P G Gow			

SA3057 Sex and Gender				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Dr P Gay y Blasco			

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SA3059 Colonial and Post-Colonial Representations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>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 decolonisation 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.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Examination or Take-Home Examination = 50%			

SA3062 Anthropology, Indigenous Peoples and Resource Extraction				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>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 globalisation. 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.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 33%, Practical Examinations = 0%, Coursework = 67%			
	As used by St Andrews: Coursework = 67%, 3-hour Examination = 33%			
Module Co-ordinator:	Dr T Crook			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012

SA3064 The Anthropology of Migration				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>This module will offer students the opportunity to examine past and present theoretical debates on migration. It will look at the ways in which major social, political and economic shifts at local and global level have contributed to the making and re-making of migrant subjectivities and identities in a globalised world. The module will focus specifically on a series of interconnected debates on cosmopolitanism, migration, citizenship and multiculturalism. This is intended to increase students' awareness of the active role played by migrants in wider political, social, and economic transformations, and for current anthropological debates on agency and personhood, on gender and intimacy, on subjectivity and identity.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and occasional film/video viewing.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination or Take- Home Examination = 50%			
Module Co-ordinator:	Dr M Fumanti			

SA3506 Methods in Social Anthropology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>Compulsory module for students studying Single Honours, Joint Honours and Major degrees in Social Anthropology who intend to go on to take SA4099. 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.</p>				
Programme module type:	Compulsory for students studying Single Honours, Joint Honours and Major degrees in Social Anthropology who intend to go on to take SA4099. Optional for Social Anthropology without SA4099.			
Required for:	SA4099			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A D E Reed			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012

SA4005 The West Indies and the Black Atlantic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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 centers in the first world.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Dr H O B Wardle			

SA4098 Library-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	To students taking Single Honours, Joint Honours and Major Degrees			
Planned timetable:	To be arranged.			
<p>The module consists of a supervised exercise in social anthropological enquiry. This will include a library-based independently researched dissertation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Social Anthropology			
Anti-requisite(s):	SA4099			
Learning and teaching methods and delivery:	Weekly contact: Seminar and tutorial.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 7,500-word Dissertation = 100%			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012

SA4099 Primary Research-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	To students taking Single Honours, Joint Honours and Major Degrees			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Social Anthropology			
Anti-requisite(s):	SA4098	Required for:	SA3506	
Learning and teaching methods and delivery:	Weekly contact: Seminar and tutorial.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 10,000-word Dissertation = 100%			

SA4857 West Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar per week and fortnightly tutorial.			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Prof R Dilley			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012

SA4862 Imagining the World: The Anthropology of Consciousness				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 24 hours		Guided independent study: 276 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Prof C Toren			

SA4865 Ethnohistories of the Americas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
This module is designed to introduce students to anthropological and historical perspectives on Americas (with specific focus on South America). A convenient cover term for the way the material is approached is ethnohistorical. Emphasis will be on the study of particular problems identified by anthropologists and historians. These include topics such as whether contemporary indigenous people are a reliable guide to understanding pre-European conquest societies, how can we understand the cultural mixtures that occurred between African, American and European traditions, the impact of colonialism and neo-colonialism on indigenous and peasant people, and the relationship of people to their environment and so on. The attention to 'problems' highlights the importance this module will give to 'ways of knowing' about other societies. Can we rely on what people tell us they know? Can historical documents be of use to ethnographers? In this course you will attempt to answer these questions for yourselves through various practical projects and tasks.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Dr M Harris			

Philosophical, Anthropological & Film Studies - Honours Level 2012/13 - August 2012

SA4866 Anthropology and Eurasia				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module forms an important introduction to the anthropology and history of the Eurasian region. It draws on Russian and Soviet ethnographies alongside more recent European and American anthropological studies, addressing the Soviet period and life post-independence. Peoples covered in this module are from the five former Soviet Central Asian states, along with groups from Mongolia, South Siberia, and Xinjiang. The module provides a broad overview of regional ethnography alongside relevant anthropological themes. These include pastoral nomadism and oasis life; socialism and post-socialism; human-environment relations and ecological issues; Islam and shamanism; food and feasting; oral epics and popular culture; and domestic practices.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, 1 hour of film/video viewing			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Written Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Dr S Bunn			

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 for an accelerated entry route to the programme, which can reduce the length of the B.Sc. Honours programme to three years and the M.Phys. programme to four years.

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

M.Phys. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years form an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least 210 credits are at 3000 and/or 4000 levels.

M.Sci. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years form an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least 210 credits are at 3000 and/or 4000 levels.

Exchange schemes: 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.

**** IMPORTANT NOTE ****

Students entering Fourth Year or Fifth Year of any programme in 2012-13 should see the appropriate 2011-12 Course Catalogue entry for the requirements to complete their Honours programme.

Physics & Astronomy - Honours Level 2012/13 - August 2012

Astrophysics - Single Honours B.Sc.

First Year:	80 credits: AS1001 and MT1002 and PH1011 and PH1012. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	120 credits: AS2001 and MT2001 and PH2011 and PH2012.
Third Year:	120 credits: AS3013 and AS4010 and PH3007 and PH3012 and PH3014 and PH3061 - PH3062 and PH3080 and PH3081, except that AS4010 may be delayed until Fourth Year and equivalent credits substituted with approval of the Adviser of Studies.
Fourth Year:	50 credits: AS4103 and PH4022 and PH4037; 30 credits: AS4010 - AS4012, AS4015, AS4025, PH4031 40 further credits: AS3000 - AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies.
In total, at least 210 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.	

Astrophysics - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 105 credits: AS2101 and MT2001 and PH2011 and PH2012 - with passes at grade 11 or better in all. <i>(Alternatively, AS1001 may be taken and AS2101 delayed until Third Year.)</i>
Third Year:	105 credits: AS3013 and PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081; 15 credits: AS2101, or if already taken in Second Year, AS4010, except that AS4010 may be delayed until Fourth Year and equivalent credits substituted with approval of the Adviser of Studies.
Fourth Year:	50 credits: AS4103 and PH4022 and PH4037; 30 credits: AS4010 - AS4012, AS4015, AS4025, PH4031 40 further credits: AS3000 - AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies.
In total at least 210 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.	

Astrophysics – Single Honours M.Phys.

First Year:	80 credits: AS1001 and MT1002 and PH1011 and PH1012. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	120 credits: AS2001 and MT2001 and PH2011 and PH2012 - with passes at grade 15 or better in all.
Third Year:	120 credits: AS3013 and AS4010 and PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081, except that AS4010 may be delayed until Fourth Year and equivalent credits substituted with approval of the Adviser of Studies.
Fourth Year:	65 credits: AS4011 and AS4012 and PH4022 and PH4037 and PH4038; 30 credits in two of: AS4015, AS4025, PH4031; At least 25 further credits, which may include ID4001.
Fifth Year:	60 credits: AS5101; At least 30 credits: AS5001 - AS5003; Further credits: AS3000 - AS4099, PH3000 - PH4109, PH5000 - PH5099 or modules in other subjects with the approval of the Adviser of Studies, to a total of 360 across Third, Fourth and Fifth Years, of which at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.

Astrophysics – Single Honours M.Phys.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 105 credits: AS2101 and MT2001 and PH2011 and PH2012 - with passes at grade 15 or better in all. <i>(Alternatively, AS1001 may be taken and AS2101 delayed until Third Year.)</i>
Third Year:	105 credits: AS3013 and PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081; 15 credits: AS2101, or if already taken in Second Year, AS4010, except that AS4010 may be delayed until Fourth Year and equivalent credits substituted with approval of the Adviser of Studies.
Fourth Year:	65 credits: AS4011 and AS4012 and PH4022 and PH4037 and PH4038; 30 credits in two of: AS4015, AS4025, PH4031; At least 25 further credits: AS3000 - AS4999, PH3000 - PH4999, ID4001.
Fifth Year:	60 credits: AS5101; At least 30 credits: AS5001 - AS5003; Further credits: AS3000 - AS4099, PH3000 - PH4109, PH5000 - PH5099 or modules in other subjects with the approval of the Adviser of Studies, to a total of 360 across Third, Fourth and Fifth Years, of which at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.

Physics - Single Honours B.Sc.

First Year:	60 credits: PH1011 and PH1012 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 11 or better in both.
Third Year:	105 credits: PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081 and PH3101; 15 credits: AS3000 - AS4999, PH3000 - PH4109, MT3501, or modules in other subjects or levels with the approval of the Adviser of Studies.
Fourth Year:	80 credits: PH4022 and PH4037 and PH4039 and PH4105 and PH4111; 40 further credits: AS3000 - AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies.
In total, at least 210 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.	

Physics - Single Honours B.Sc.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 11 or better in both.
Third Year:	105 credits: PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081 and PH3101; 15 credits: AS3000 - AS4999, PH3000 - PH4109, MT3501, or modules in other subjects or levels with the approval of the Adviser of Studies.
Fourth Year:	80 credits: PH4022 and PH4037 and PH4039 and PH4105 and PH4111; 40 further credits: AS3000 - AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies.
In total, at least 210 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.	

Physics & Astronomy - Honours Level 2012/13 - August 2012

Physics - Joint Honours B.Sc.

Physics and one of: Computer Science, Logic & Philosophy of Science, Mathematics.

Physics element of Physics - Joint Honours B.Sc. (except those defined below):

First Year: 60 credits: PH1011 **and** PH1012 **and** MT1002.
(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)

Second Year: 90 credits: PH2011 **and** PH2012 **and** MT2001 - with passes at grade 11 or better in all.

Third Year: 60 credits: PH3012 **and** PH3061 **and** PH3062 **and** PH3080 **and** PH3081.

Fourth Year: 15 credits: PH3007;
15 credits: PH4040;
30 credits: PH4111 (unless one of CS4098, PY4698, PY4699 taken);
Further credits may be taken from AS3000 - AS4999, PH3000 - PH4109, ID4001 or modules in other subjects with the approval of the Adviser of Studies.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

Physics and Mathematics - Joint Honours B.Sc.:

First Year: 60 credits: PH1011 **and** PH1012 **and** MT1002.
(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)

Second Year: 90 credits: PH2011 **and** PH2012 **and** MT2001 - with passes at grade 11 or better in all;
30 credits: MT2002 **or** MT2003 - with a pass at grade 11 or better.

Third and Fourth Years (Maths):
30 credits in two of: MT3501, MT3503, MT3504;
15 credits: MT3600 **or** MT3601;
15 credits: MT4111 **or** MT 4112 (unless PH3080 taken);
15 credits: MT4599 (in Fourth Year only);
45 further credits: MT3000 - MT4999.

Third Year (Physics): **EITHER (if MT2003 taken in Second Year):**
50 credits: PH3007 **and** PH3012 **and** PH3061 **and** PH3062;
10 credits: PH3080 (unless MT4111 **or** MT4112 taken).
OR (if MT2003 not taken in Second Year):
50 credits: PH3012 **and** PH3061 **and** PH3062 **and** PH3081;
10 credits: PH3080 (unless MT4111 **or** MT4112 taken).

Fourth Year (Physics): **EITHER (if MT2003 taken in Second Year):**
25 credits: PH4022 **and** PH4039;
At least 30 further credits: AS3000-AS5999, PH3000 - PH4110, PH5000 - PH5099.
OR (if MT2003 not taken in Second Year):
40 credits: PH3007 **and** PH4022 **and** PH4039;
At least 15 further credits: AS3000 - AS5999, PH3000 - PH4110, PH5000 - PH5099.

In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

Physics – Single Honours M.Phys.

First Year:	60 credits: PH1011 and PH1012 and MT1002. <i>(Students without prerequisite for MT1002 will take MT1001 in Semester 1.)</i>
Second Year:	90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all.
Third Year:	105 credits: PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081 and PH3101; 15 credits: AS3000 - AS4999, PH3000 - PH4109, MT3501, or modules in other subjects or levels with the approval of the Adviser of Studies.
Fourth Year:	65 credits: PH4022 and PH4037 and PH4038 and PH4039 and PH4105; 15 credits: PH3074, unless taken in Third Year; Further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies, to a total of 120 credits for the Year.
Fifth Year:	60 credits: PH5101; 60 credits: AS5000 - AS5999, PH5000 - PH5099.
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

Physics – Single Honours M.Phys.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all.
Third Year:	105 credits: PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081 and PH3101; 15 credits: AS3000 - AS4999, PH3000 - PH4109, MT3501, or modules in other subjects or levels with the approval of the Adviser of Studies.
Fourth Year:	65 credits: PH4022 and PH4037 and PH4038 and PH4039 and PH4105; 15 credits: PH3074, unless taken in Third Year; Further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies, to a total of 120 credits for the Year.
Fifth Year:	60 credits: PH5101; 60 credits: AS5000 - AS5999, PH5000 - PH5099.
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

Physics & Astronomy - Honours Level 2012/13 - August 2012

Physics and Chemistry - Joint Honours M.Sci.:

First Year:	100 credits: CH1401 and CH1402 and MT1002 and PH1011 and PH1012. <i>(Permission may be granted for suitably-qualified students to be exempted from PH1011 and/or PH1012 and to take some 2000-level PH credits in First Year.)</i>
Second Year:	150 credits: CH2501 and CH2701 and MT2001 and PH2011 and PH2012 - with passes at grade 15 or better in all.
Third or Fourth Year* (Chemistry):	120 credits: CH3431 and CH3441 and CH3512 and CH3514 and CH3615 and CH3712 and CH3717 and CH3721 and CH4712 and CH4713 and CH4714.
Third or Fourth Year* (Physics):	120 credits: PH3007 and PH3012 and PH3061 and PH3062 and PH3082 and PH3101 and PH4022 and PH4037 and PH4039.
Fifth Year:	EITHER 60 credits: PH5101; 15 further credits in one of: PH5000 - PH5999; 30 credits in three of: CH5518, CH5711 - CH5714, CH5717 - CH5718; 15 further credits: CH5000 - CH5999, PH5000 - PH5999. OR 40 credits from CH5441; 30 credits: PH5000 - PH5999; 30 credits: CH5518, CH5711 - CH5714, CH5717 - CH5718; 20 further credits: CH5000 - CH5999, PH5000 - PH5999.

* This will be decided between the two Schools and notified to students.

This programme is accredited by the Royal Society of Chemistry (RSC) for professional membership.

Theoretical Physics – Single Honours M.Phys.

First Year:	60 credits: PH1011 and PH1012 and MT1002.
Second Year:	90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all.
Third Year:	105 credits: PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081 and PH4038; 15 credits: AS3000 - AS4999, PH3000 - PH4109, MT3501, or modules in other subjects or levels with the approval of the Adviser of Studies.
Fourth Year:	60 credits: PH4022 and PH4037 and PH4028 and PH4039 and PH4032; 15 credits: MT3501, unless taken in Third Year; Further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies, to a total of 120 credits for the Year.
Fifth Year:	75 credits: PH5002 and PH5004 and PH5102; At least 15 credits: PH5003, PH5011, PH5012. Further credits: AS5000 - AS5999, PH5000 - PH5099, to a total of 120 credits for the Year.

In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.

Theoretical Physics – Single Honours M.Phys.

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all.
Third Year:	105 credits: PH3007 and PH3012 and PH3014 and PH3061 and PH3062 and PH3080 and PH3081 and PH4038; 15 credits: AS3000 - AS4999, PH3000 - PH4109, MT3501, or modules in other subjects or levels with the approval of the Adviser of Studies.
Fourth Year:	60 credits: PH4022 and PH4037 and PH4028 and PH4039 and PH4032; 15 credits: MT3501, unless taken in Third Year; Further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001 or modules in other subjects or levels with the approval of the Adviser of Studies, to a total of 120 credits for the Year.
Fifth Year:	75 credits: PH5002 and PH5004 and PH5102; At least 15 credits: PH5003, PH5011, PH5012. Further credits: AS5000 - AS5999, PH5000 - PH5099, to a total of 120 credits for the Year.
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

Theoretical Physics and Mathematics - Joint Honours M.Phys.:

First Year:	60 credits: PH1011 and PH1012 and MT1002.
Second Year:	90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all. 30 credits: MT2002 or MT2003 - with a pass at grade 15 or better.
Third Year:	EITHER (if MT2003 taken in Second Year): 50 credits: PH3007 and PH3012 and PH3061 - PH3062; 45 credits: MT3501 and MT3504 and MT3601; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. OR (if MT2003 not taken in Second Year): 50 credits: PH3012 and PH3061 - PH3062 and PH3081; 30 credits: MT3501 and MT3504; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. 15 further credits: MT3000 - MT4598 or MT4600 - MT4699.
Fourth Year:	EITHER (if MT2003 taken in Second Year): 40 credits: PH4022 and PH 4032 and PH4039; At least 20 further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001; At least 60 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 -MT5899. OR (if MT2003 not taken in Second Year): 70 credits: MT3601 and PH3007 and PH4022 and PH4032 and PH4039; At least 45 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 - MT5899.
Fifth Year:	At least 40 credits: MT5999 or PH5102; 30 credits: PH5002 and PH5004; 15 credits: PH5003 or PH5011 or PH5012 (unless already taken in Fourth Year); At least 40 credits: MT5000 - MT5899 (unless already taken in Fourth Year); Further credits if necessary to a total of 180 across Third, Fourth and Fifth Years from 3000 - , 4000 - and 5000 - level MT modules (except that 30 further credits from MT2000 - MT2999 may be substituted).
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

Physics & Astronomy - Honours Level 2012/13 - August 2012

Theoretical Physics and Mathematics - Joint Honours M.Phys.:

Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	20 credits: MT1002; 90 credits: PH2011 and PH2012 and MT2001 - with passes at grade 15 or better in all. 30 credits: MT2002 or MT2003 - with a pass at grade 15 or better.
Third Year:	EITHER (if MT2003 taken in Second Year): 50 credits: PH3007 and PH3012 and PH3061 - PH3062; 45 credits: MT3501 and MT3504 and MT3601; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. OR (if MT2003 not taken in Second Year): 50 credits: PH3012 and PH3061 - PH3062 and PH3081; 30 credits: MT3501 and MT3504; At least 10 credits: MT4111 or MT4112 or PH3080; 15 credits: MT4507 or PH4038. 15 further credits: MT3000 - MT4598 or MT4600 - MT4699.
Fourth Year:	EITHER (if MT2003 taken in Second Year): 40 credits: PH4022 and PH 4032 and PH4039; At least 20 further credits: AS3000 – AS4999, PH3000 - PH4109, ID4001; At least 60 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 -MT5899. OR (if MT2003 not taken in Second Year): 70 credits: MT3601 and PH3007 and PH4022 and PH4032 and PH4039; At least 45 further credits: MT3000 - MT4598, MT4600 - MT4699, MT5000 - MT5899.
Fifth Year:	At least 40 credits: MT5999 or PH5102; 30 credits: PH5002 and PH5004; 15 credits: PH5003 or PH5011 or PH5012 (unless already taken in Fourth Year); At least 40 credits: MT5000 - MT5899 (unless already taken in Fourth Year); Further credits if necessary to a total of 180 across Third, Fourth and Fifth Years from 3000 - , 4000 - and 5000 - level MT modules (except that 30 further credits from MT2000 - MT2999 may be substituted).
In total, at least 330 credits must be achieved at 3000, 4000 and 5000 level with at least 120 of these at 5000 level.	

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

Modules

Normally the pre-requisite (s) 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 pre-requisite(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 pre-requisite(s) 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 pre-requisite is given.

Astronomy (AS) Modules

AS3013 Computational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Planned timetable:	2.00 pm - 5.00 pm Mon and Thu.		
The aim of this module is to introduce students to computational methods in astrophysics. Based on a general introduction to the programming language Fortran-90, students are shown how to apply simple numerical algorithms to calculate integrals, iteratively find the roots of non-linear equations, solve systems of ordinary differential equations, and to develop tools for statistical data analysis. Further emphasis is put on the development of skills to make convincing plots from the calculated data. The practical exercises include applications to the initial mass function in star formation, the calculation of orbits for N-body gravitational problems and in mean galactic potentials, and planet transition light-curves. Students gain experience with the basics of numerical accuracy, and the development of problem-solving algorithms in general."			
Programme module type:	Compulsory for Astrophysics Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS2001 or AS2101		
Learning and teaching methods and delivery:	Weekly contact: Mostly hands-on guided work on computers, but with occasional presentation.		
	Scheduled learning: 77 hours	Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (practical work, the submission of computer code and computational solutions to given problems) = 100%		
Module Co-ordinator:	Dr P Woitke		
Lecturer(s)/Tutor(s):	Dr P Woitke, Dr C Helling		

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AS4010 Galaxies and Observational Cosmology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Planned timetable:	To be arranged.		
<p>This module introduces the basic elements of extragalactic astronomy and observational cosmology. The first half of the module includes the morphological, structural and spectral properties of elliptical, spiral, quiescent and star-forming galaxies. We study how galaxy populations change from the distant galaxies in the early Universe into those observed in our local neighbourhood, including the coincident growth of super massive black holes at the centres of massive galaxies. Galaxy formation theory is introduced in relation to the growth of structure in a cold-dark matter dominated Universe.</p> <p>The second half of 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.</p> <p>Finally the ultimate fate of the Universe is revealed.</p>			
Programme module type:	Compulsory for Astrophysics B.Sc. and M.Phys. Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS2001 or AS2101, PH2012	Anti-requisite(s):	AS4022 Cosmology and AS3011 Galaxies
Required for:	AS5003 unless other pre-requisites for that module met.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by tutorials		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Dr V Wild		
Lecturer(s)/Tutor(s):	Dr V Wild, Dr H Zhao		

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AS4011 The Physics of Nebulae and Stars I			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2013/4 and subsequent years		
Availability restrictions:	Expected to be available each year from 2013/4		
Planned timetable:	To be arranged.		
<p>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-ionise nebulae, interstellar shocks, nova and supernova shells, accretion discs, quasar-absorption-line clouds, radio synchrotron jets, radio pulsars, and x-ray plasmas. Monte-Carlo computational techniques are introduced to model radiative transfer.</p>			
Programme module type:	Compulsory for Astrophysics M.Phys. At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsorys for Astrophysics B.Sc. Optional for Astrophysics, Physics B.Sc. Optional module for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics M.Phys.		
Pre-requisite(s):	AS2001 or AS2101, PH2012	Anti-requisite(s):	AS4023, AS3015
Required for:	AS4012 The Physics of Nebulae and Stars 2		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework = 25%, 2-hour Written Examination = 75%		
Module Co-ordinator:	Dr K Wood		
Lecturer(s)/Tutor(s):	Dr K Wood, Prof A C Cameron		

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AS4012 The Physics of Nebulae and Stars 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2013/4 and subsequent years		
Availability restrictions:	Expected to be available each year from 2013/4		
Planned timetable:	To be arranged.		
<p>This module develops the physics of stellar interiors and atmospheres from the basic equations of stellar structure introduced in AS2001/AS2101 using the radiative transfer concepts developed in Nebulae and Stars I. 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 twentieth-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.</p>			
Programme module type:	Compulsory for Astrophysics M.Phys. At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics B.Sc. Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS4011 The Physics of Nebulae and Stars I	Anti-requisite(s):	AS4023, AS3015
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework = 25%, 2-hour Written Examination = 75%		
Module Co-ordinator:	Dr K Wood		
Lecturer(s)/Tutor(s):	Dr K Wood		

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AS4015 Gravitational and Accretion Physics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2013/4 and subsequent years		
Availability restrictions:	Expected to be available each year from 2013/4		
Planned timetable:	To be arranged.		
<p>This theoretical module is open to both physics and astrophysics students. It aims to explore the basics of gravitational dynamics and its application to systems ranging from planetary and stellar systems to clusters of galaxies. The dynamics responsible for the growth of super-massive black holes in galaxies and the accretion discs in stellar systems are also covered. 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 selfgravitating 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.</p>			
Programme module type:	At least 2 of AS4015, AS4025, PH4031 are compulsory for Astrophysics M.Phys. At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics B.Sc. Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2011	Anti-requisite(s):	AS4021
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Dr H Zhao		
Lecturer(s)/Tutor(s):	Dr H Zhao, Prof K D Horne		

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AS4021 Gravitational Dynamics			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 1
Academic year:	2012/3		
Availability restrictions:	This module will run for the final time in 2012/3, and is intended for students who started their honours programme in the School in 2011 or before.		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics For students who started their Honours programmes in 2011 or before, please refer to previous Course Catalogues.		
Pre-requisite(s):	AS2001 or AS2101		
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.		
	Scheduled learning: 20 hours	Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Prof I A Bonnell		
Lecturer(s)/Tutor(s):	Prof I A Bonnell		

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AS4022 Cosmology			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Availability restrictions:	This module will run for the final time in 2012/3, and is intended for students who started their honours programme in the School in 2011 or before.		
Planned timetable:	To be arranged.		
<p>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 68110 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.</p>			
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics For students who started their Honours programmes in 2011 or before, please refer to previous Course Catalogues.		
Pre-requisite(s):	AS2001 or AS2101	Anti-requisite(s):	AS4010
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week and some tutorials.		
	Scheduled learning: 22 hours	Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Dr H Zhao		
Lecturer(s)/Tutor(s):	Dr H Zhao		

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AS4023 Stars			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Availability restrictions:	This module will run for the final time in 2012/13, and is intended for students who started their honours programme in the School in 2011 or before.		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics For students who started their Honours programmes in 2011 or before, please refer to previous Course Catalogues.		
Pre-requisite(s):	AS2001 or AS2101	Anti-requisite(s):	AS4011, AS4012
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Prof A C Cameron		
Lecturer(s)/Tutor(s):	Prof A C Cameron, Dr K Wood		

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AS4025 Observational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2012/3		
Planned timetable:	To be arranged.		
<p>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. Students use the James Gregory Telescope for CCD imaging and structural analysis of galaxies, and for CCD photometry of transiting exoplanet candidates. Further sources of data may be made available from international observatories. Observations are also secured at the University Observatory using a student-built radio telescope to observe low-frequency radio emission from the Galactic plane.</p> <p>Students gain experience in observation, data analysis, the UNIX operating system, standard astronomical software packages and modelling, and report writing.</p>			
Programme module type:	At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics B.Sc. Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS2001 or AS2101		
Learning and teaching methods and delivery:	Weekly contact: 2 x 3 hour laboratories plus supervised work in the observatory.		
	Scheduled learning: 78 hours	Guided independent study: 72 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof A C Cameron		
Lecturer(s)/Tutor(s):	Dr J Greaves, Dr P A S Cruickshank, Prof A C Cameron		

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AS4103 Astrophysics Project (B.Sc.)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2012/3			
Availability restrictions:	Available only to B.Sc. Astrophysics students, and normally only in their final year.			
Planned timetable:	Please Contact School			
<p>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 around 29 of the 30 credits' worth of work is normally undertaken in semester two.</p> <p>The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project and usually also by other members of a research team. Many projects will be carried out in the School's computing clusters, but other arrangements are possible. The review essay that precedes the observational/computational work is worth 10 credits, i.e. should have about 100 hours of work invested in it. This work is expected to be directly useful to the subsequent studies.</p>				
Programme module type:	Compulsory for Astrophysics B.Sc.			
Anti-requisite(s):	AS5101, PH4111, PH5101, PH5102			
Learning and teaching methods and delivery:	<p>Weekly contact: Project students work "half-time" on their project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in computer clusters in the School, where students can benefit from peer support and informal interaction with academic supervisor and other members of research teams. It is expected that the 20 hours a week will be primarily in this environment.</p>			
	Scheduled learning: 140 hours	Guided independent study: 160 hours		
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>			
	<p>As used by St Andrews: Coursework (Review Article, Project Report, Presentation and Oral Examination) = 100%</p>			
Module Co-ordinator:	Prof M M Jardine			
Lecturer(s)/Tutor(s):	Astronomy staff			

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AS5001 Advanced Data Analysis			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Availability restrictions:	This module is intended for students in the final year of an M.Phys. or M.Sci. programme involving the School		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	At least two of AS5001, AS5002, and AS5003 must be taken for M.Phys. Astrophysics Optional for Physics M.Phys., Theoretical Physics, Theoretical Physics and Mathematics		
Pre-requisite(s):	Familiarity with scientific programming language essential, for example through AS3013 Computational Astrophysics or PH4030 or PH3080 Computational Physics. Entry to an M.Phys. programme or entry to a taught postgraduate programme in the School.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials and some supervised computer lab sessions		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Prof K D Horne		
Lecturer(s)/Tutor(s):	Prof K D Horne		

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AS5002 Magnetofluids and Space Plasmas			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Availability restrictions:	This module is intended for students in the final year of an M.Phys. or M.Sci. programme involving the School		
Planned timetable:	To be arranged.		
<p>This module is aimed at both physics and astrophysics students with interests in the physics of plasmas. The interaction of a magnetic field with an ionized gas (or plasma) is fundamental to many problems in astrophysics, solar- terrestrial physics and efforts to harness fusion power using tokamaks. 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.</p>			
Programme module type:	At least two of AS5001, AS5002, and AS5003 must be taken for M.Phys. Astrophysics Optional for Physics M.Phys., Theoretical Physics, Theoretical Physics and Mathematics		
Pre-requisite(s):	(PH2012 or MT3601), (PH3075 or MT2003), PH4031 is strongly recommended. Entry to an M.Phys. Programme or a taught postgraduate programme in the School.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Prof M M Jardine		
Lecturer(s)/Tutor(s):	Prof M M Jardine		

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AS5003 Contemporary Astrophysics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Available only to M.Phys. Astronomy students or a taught postgraduate programme in the School.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	At least two of AS5001, AS5002, and AS5003 must be taken for M.Phys. Astrophysics			
Pre-requisite(s):	Entry to M.Phys. Astronomy programme. (AS2001 or AS2101), AS3011 or AS4010 and AS3012 or AS4015 recommended			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and some tutorials			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Helling			
Lecturer(s)/Tutor(s):	Dr C Helling, Dr A Vidotto, Dr S Gregory			

AS5101 Astrophysics Project (M.Phys.)				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Availability restrictions:	Available only to final year M.Phys. Astronomy students			
Planned timetable:	Please Contact School			
<p>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 most of the 60 credits' worth of work is undertaken in semester two.</p> <p>The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project and sometimes also by other members of a research team. Many projects will be carried out in one of the astronomy computing clusters, but other arrangements are possible. The review essay that precedes experimental work is worth 10 credits, ie should have about 100 hours of work invested in it. This work is expected to be directly useful to the subsequent studies.</p>				
Programme module type:	Compulsory for Astrophysics M.Phys.			
Anti-requisite(s):	AS4103, PH4111, PH5101, PH5102			
Learning and teaching methods and delivery:	Weekly contact: Project students work "full-time" on their M.Phys. project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in astronomy computer clusters in the School, where students can benefit from peer support and informal interaction with academic supervisor and other members of research teams. It is expected that the 40 hours a week will be primarily in this environment.			
	Scheduled learning: 300 hours		Guided independent study: 300 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof M M Jardine			

Physics (PH) Modules

PH3007 Electromagnetism				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
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, waveguides and transmission lines, metals and dielectrics. The relation between electromagnetic theory and quantum theory will be discussed briefly.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Physics and Chemistry M.Sc., Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	(PH3081 or PH3075 or MT2003) and PH2012 and MT2001.			
Required for:	PH4025, PH4027, PH5005, PH5018, PH5021			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%			
Module Co-ordinator:	Dr G M Smith			
Lecturer(s)/Tutor(s):	Dr G M Smith			

PH3012 Thermal and Statistical Physics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Chemistry and Physics M.Sc., Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH4025, PH5014			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%			
Module Co-ordinator:	Dr P A S Cruickshank			
Lecturer(s)/Tutor(s):	Dr P A S Cruickshank, Prof Steve Lee			

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PH3014 Transferable Skills for Physicists				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Academic year:	2012/3			
Planned timetable:	To be arranged.			
	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, thus extending student knowledge and understanding of their chosen subject. Guidance, practice and assessment will be provided in the preparation and delivery of talks, critical reading of the literature, scientific writing, developing and writing a case for resources to be expended to investigate a particular area of science, tackling case studies.			
Programme module type:	Compulsory for Astrophysics, Physics, Theoretical Physics			
Pre-requisite(s):	Entry to the School's Honours programme, or shadowing same.			
Anti-requisite(s):	PH4040			
Learning and teaching methods and delivery:	Weekly contact: Occasional lectures or tutorials or workshops.			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework on basis of exercises = 100%			
Module Co-ordinator:	Dr B D Sinclair			
Lecturer(s)/Tutor(s):	Physics and Astronomy staff			

PH3061 Quantum Mechanics 1				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
	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.			
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Chemistry and Physics M.Sci., Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH3062, PH4021, PH4022, PH4025, PH4028, PH4037, PH4040, PH5002, PH5003, PH5004, PH5005, PH5012, PH5014, PH5015, PH5021			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and fortnightly tutorials.			
	Scheduled learning: 26 hours		Guided independent study: 74 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%			
Module Co-ordinator:	Dr A S Kohnle			
Lecturer(s)/Tutor(s):	Dr A S Kohnle			

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PH3062 Quantum Mechanics 2				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Chemistry and Physics M.Sci., Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH4021, PH4022, PH4028, PH4037, PH4040, PH5002, PH5003, PH5004, PH5005, PH5012, PH5014, PH5015			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 26 hours		Guided independent study: 74 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%			
Module Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari			

PH3073 Lagrangian and Hamiltonian Dynamics				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Availability restrictions:	This module runs under this code for the final time in 2012-13. It is intended for those who started their honours programme in the School in 2011-12 or before.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for all M.Phys. degrees, except Mathematics and Theoretical Physics PH3073 or MT4507 is a compulsory for Mathematics and Theoretical Physics			
Pre-requisite(s):	PH2011, MT2001 and a knowledge of vector calculus.		Anti-requisite(s):	MT4507, PH4038
Required for:	PH4032 (unless MT4507 is taken), PH5004			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 26 hours		Guided independent study: 74 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, 2-hour Written Examination = 75%			
Module Co-ordinator:	Dr N Korolkova			
Lecturer(s)/Tutor(s):	Dr N Korolkova			

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PH3074 Electronics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Materials Chemistry B.Sc. and M.Chem., Physics M.Phys. Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, tutorials or short lab sessions			
	Scheduled learning: 36 hours		Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, 2-hour Written Examination = 75%			
Module Co-ordinator:	Dr P A S Cruickshank			
Lecturer(s)/Tutor(s):	Dr P A S Cruickshank			

PH3080 Computational Physics				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2012/3			
Availability restrictions:	This module is intended for students who started their honours programme in the School in 2012-13 and later.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics This or one of the computational maths modules is compulsory for the joint degrees with Mathematics.			
Anti-requisite(s):	PH4030			
Learning and teaching methods and delivery:	Weekly contact: 2 x 2 - 2.5-hour sessions 1 week followed by 1 x 2 - 2.5-hour session the following week. This pattern alternates over the semester.			
	Scheduled learning: 44 hours		Guided independent study: 56 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A D Gillies			
Lecturer(s)/Tutor(s):	Dr A D Gillies, Dr G M Smith, Dr M Mazilu			

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PH3081 Mathematics for Physicists			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Planned timetable:	To be arranged.		
<p>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, and on vector calculus. 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. The vector calculus section 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.</p>			
Programme module type:	Compulsory for Astrophysics, Single and Joint Physics, Theoretical Physics PH3081 is compulsory for Physics and Mathematics, Theoretical Physics and Mathematics if MT2003 is not taken in Second Year		
Pre-requisite(s):	PH2012, MT2001	Anti-requisite(s):	PH3066, PH3075, PH3082
Required for:	PH3007, PH5011 unless other pre-requisite(s) taken		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures plus tutorials.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Coursework (Class Tests) = 20%, 2-hour Written Examination = 80%		
Module Co-ordinator:	Dr C Hooley		
Lecturer(s)/Tutor(s):	Dr C Hooley		

PH3082 Mathematics for Chemistry / Physics			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2012/3		
Availability restrictions:	Available only to Chemistry and Physics M.Sci. students		
Planned timetable:	To be arranged.		
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, and on vector calculus. 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. The vector calculus section 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. In the other section of the module students are introduced to the Mathematica package, and shown how this can be used to set up mathematical models of physical systems.			
Programme module type:	Compulsory for Chemistry and Physics M.Sci.		
Pre-requisite(s):	PH2012, MT2001	Anti-requisite(s):	PH3066, PH3081
Required for:	PH5011 unless other pre-requisite(s) taken		
Learning and teaching methods and delivery:	Weekly contact: 2 lectures per week plus tutorials and computing lab sessions.		
	Scheduled learning: 62 hours	Guided independent study: 138 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%		
Module Co-ordinator:	Dr C Hooley		
Lecturer(s)/Tutor(s):	Dr C Hooley, Dr A Gillies, Dr G M Smith, Dr M Mazilu		

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PH3101 Physics Laboratory 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2012/3			
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu.			
The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instill an appreciation of the significance of experiments and their results. The module consists of sub-modules on subjects such as solid state physics, lasers, interfacing, and signal processing and related topics.				
Programme module type:	Compulsory for Physics B.Sc. and M.Phys., Chemistry and Physics M.Sci. Optional for Astrophysics, Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH4111 (unless PH4105 is taken), PH5101			
Learning and teaching methods and delivery:	Weekly contact: 2 x 3.5-hour laboratories.			
	Scheduled learning: 72 hours		Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C F Rae			
Lecturer(s)/Tutor(s):	Dr C F Rae and Physics staff			

PH4021 Physics of Atoms				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Availability restrictions:	This module will run for the final time in 2012/3, and is intended for students who started their honours programme in the School in 2011/2 or before.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Physics, Theoretical Physics, Chemistry and Physics			
Pre-requisite(s):	PH3061, PH3062			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari			

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PH4022 Nuclear and Particle Physics			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Availability restrictions:	This module will run for the final time in 2012/3, and is intended for students who started their honours programme in the School in 2011/2 or before.		
Planned timetable:	To be arranged.		
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 beta-decay, alpha-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.			
Programme module type:	Compulsory for Astrophysics, Physics, Theoretical Physics, Chemistry and Physics M.Sci., Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2012, PH3061 and PH3062	Anti-requisite(s):	PH4040
Learning and teaching methods and delivery:	Weekly contact: 2 lectures or tutorials.		
	Scheduled learning: 22 hours	Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 95%, Practical Examinations = 0%, Coursework = 5%		
	As used by St Andrews: Coursework = 5%, 2-hour Written Examination = 95%		
Module Co-ordinator:	Dr A S Kohnle		
Lecturer(s)/Tutor(s):	Dr A S Kohnle		

PH4025 Physics of Electronic Devices			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Planned timetable:	To be arranged.		
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.			
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	PH3007, PH3012, PH3061		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Dr G A Turnbull		
Lecturer(s)/Tutor(s):	Dr G A Turnbull		

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PH4026 Signals and Information				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module gives an introduction to what are signals and information, and how they are measured and processed. It also covers the importance of coherent techniques such as frequency modulation and demodulation and phase sensitive detection. The first part of the module concentrates on information theory and the basics of measurement, with examples. Coherent signal processing is then discussed, including modulation/demodulation, frequency mixing and digital modulation. Data compression and reduction ideas are illustrated with real examples and multiplexing techniques are introduced. The module concludes with a discussion of basic antenna principles, link gain, and applications to radar.</p>				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics (Single and Joint)			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr P A S Cruickshank			
Lecturer(s)/Tutor(s):	Dr P A S Cruickshank			

PH4027 Optoelectronics and Nonlinear Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics Undergraduate Programmes.			
Pre-requisite(s):	PH3007			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Prof I D W Samuel			
Lecturer(s)/Tutor(s):	Prof I D W Samuel, Dr MI Mazilu			

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PH4028 Advanced Quantum Mechanics				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
	This module builds on the material of PH3061 and PH3062 Quantum Mechanics 1 and 2 to present some of the important current and advanced topics in quantum mechanics. Matrix mechanics is introduced as it is a convenient formalism in the applications of operator methods. These ideas are then used to cover the density matrix formalism as the general state description. Quantum degenerate gases will be discussed, including Bose-Einstein condensates and degenerate fermionic gases. Quantum information concepts will be covered, including concepts such as quantum entanglement, qubits, quantum telephoration, and quantum key distribution.			
Programme module type:	Compulsory for Theoretical Physics Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3061, PH3062			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 22 hours		Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Korolkova			
Lecturer(s)/Tutor(s):	Dr N Korolkova, Dr D Cassettari			

PH4030 Computational Physics				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Availability restrictions:	This module will run for the final time in 2012/13, and is intended for students who started their honours programme in the School in 2011/12 or before.			
Planned timetable:	To be arranged.			
	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.			
Programme module type:	This module is compulsory to students completing existing M.Phys. programmes in Physics and Theoretical Physics only.			
Anti-requisite(s):	PH3080			
Learning and teaching methods and delivery:	Weekly contact: 2 x 2-hour sessions.			
	Scheduled learning: 44 hours		Guided independent study: 56 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr G M Smith			
Lecturer(s)/Tutor(s):	Dr G M Smith, Dr A D Gillies, Dr MI Mazilu			

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PH4031 Fluids				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics Two of PH4031, AS4011, AS4012, AS4025, AS4015 compulsory for Astrophysics B.Sc. Two of PH4031, AS4025, AS4015 compulsory for Astrophysics M.Phys.			
Required for:	AS5002 (strongly recommended, though not required)			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and some tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Prof M M Jardine			
Lecturer(s)/Tutor(s):	Prof M M Jardine			

PH4032 Special Relativity and Fields				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Availability restrictions:				
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Theoretical Physics, Theoretical Physics and Mathematics Optional for Astrophysics, Physics, Physics and Mathematics			
Pre-requisite(s):	PH3073 or MT4507			
Required for:	PH5011 (recommended, though not required)			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework (assessed tutorial questions) = 25%, 2-hour Written Examination = 75%			
Module Co-ordinator:	Dr N Korolkova			
Lecturer(s)/Tutor(s):	Dr N Korolkova			

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PH4034 Laser Physics 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH5016 (unless PH4035 is taken), PH5018 - also recommended for PH5005			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: Coursework = 10%, 2-hour Written Examination = 90%			
Module Co-ordinator:	Dr F E W Koenig			
Lecturer(s)/Tutor(s):	Dr F E W Koenig			

PH4035 Principles of Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH5016 (unless PH4034 is taken)			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, 2-hour Written Examination = 75			
Module Co-ordinator:	Dr F E W Koenig			
Lecturer(s)/Tutor(s):	Dr F E W Koenig			

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PH4036 Physics of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	Admission to an Honours class in the School of Physics and Astronomy and prior or concurrent attendance at PH3066			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J A Kemp			
Lecturer(s)/Tutor(s):	Dr J A Kemp			

PH4037 Physics of Atoms				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2013/4 and subsequent years.			
Availability restrictions:	This module is expected to run every year from 2013/14, and is intended for students who started their honours programme in the School in 2012/13 and later.			
Planned timetable:	To be arranged.			
This module provides a rational basis to the identification of atomic energy states and the various interactions of electrons within atoms. The syllabus includes: electron cloud model of an atom; electron spin and magnetic moment; spin-orbit interactions; one, two and many-electron systems; selection rules and line intensities for electric-dipole transitions; Lande g-factors; weak Zeeman and strong Paschen-Back magnetic field effects; hyperfine structure and Lamb shifts.				
Programme module type:	Compulsory for Physics, Astrophysics, Theoretical Physics, Chemistry and Physics M.Sci. Optional for Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3061, PH3062		Anti-requisite(s):	PH4021
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 22 hours		Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari			

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PH4038 Lagrangian and Hamiltonian Dynamics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2012/3		
Availability restrictions:	This module is intended for students who started their honours programme in the School in 2012/13 and later.		
Planned timetable:	To be arranged.		
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.			
Programme module type:	Compulsory for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics Optional for Astrophysics B.Sc., Chemistry and Physics M.Sci., Physics B.Sc., Physics and Mathematics One of PH4038 and MT4507 compulsory for Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2011, MT2001 and a knowledge of vector calculus.		
Anti-requisite(s):	MT4507, PH3073		
Learning and teaching methods and delivery:	Weekly contact: 2 or 3 lectures and some tutorials		
	Scheduled learning: 26 hours	Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Dr N Korolkova		
Lecturer(s)/Tutor(s):	Dr N Korolkova		

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PH4039 Solid State Physics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2012/3		
Availability restrictions:	This module is intended normally to be taken in the SH year of the School's programmes. In 2012/13 only those on the Materials Chemistry programme (and a few other joint degree students) are expected to take this module.		
Planned timetable:	To be arranged.		
This 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.			
Programme module type:	Compulsory for Materials Chemistry B.Sc. and M.Chem. Compulsory for Physics, Theoretical Physics, Chemistry and Physics M.Sci., Physics and Mathematics, Theoretical Physics and Mathematics		
Anti-requisite(s):	PH3002		
Required for:	PH5014 (unless PH3002 was taken under previous requirements)		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials		
	Scheduled learning: 34 hours	Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%		
Module Co-ordinator:	Prof S L Lee		
Lecturer(s)/Tutor(s):	Prof S L Lee		

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PH4040 Nuclear and Particle Physics (Extended)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4 and subsequent years.			
Availability restrictions:	Available only to students on the Physics and Logic and Philosophy of Science, and Physics and Computer Science programmes. The module is expected to run every year from 2013/14.			
Planned timetable:	To be arranged.			
	<p>The first 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 betadecay, alpha-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. The second aim of this module is to develop research skills, and oral and written communication skills in science. Participants will be given training in the use of bibliographic databases, use of the scientific literature, oral and written communication skills, and will develop these skills through structured assignments.</p>			
Programme module type:	Compulsory for Physics and Logic and Philosophy of Science, and Physics and Computer Science			
Pre-requisite(s):	PH3061, PH3062, Entry to B.Sc. Honours in either Logic and Philosophy of Science and Physics or Computer Science and Physics			
Anti-requisite(s):	PH4022, PH3014			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and occasional workshops and tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr A S Kohnle			
Lecturer(s)/Tutor(s):	Dr A S Kohnle, Dr B D Sinclair			

PH4105 Physics Laboratory 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2012/3			
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu.			
	<p>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 sub-modules on topics such as solid state physics, optics, interfacing, and signal processing.</p>			
Programme module type:	Compulsory for Physics Optional for Astrophysics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Required for:	PH4111 (unless PH3101 is taken)			
Learning and teaching methods and delivery:	Weekly contact: 2 x 3.5-hour laboratories.			
	Scheduled learning: 70 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C F Rae			
Lecturer(s)/Tutor(s):	Dr C F Rae and Physics staff			

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PH4111 Physics Project (B.Sc.)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2012/3		
Availability restrictions:	Normally only in the final year of a Physics B.Sc. programme		
Planned timetable:	Please Contact School		
<p>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 is usually related to the theme of the project. There is no specific syllabus for this module. Students taking the B.Sc. 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 most of the 30 credits' worth of work is undertaken in semester two.</p> <p>The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project and usually also by other members of a research team. Many projects will be carried out in the School's research labs, but other arrangements are possible. The review essay that precedes experimental work is worth 10 credits, ie should have about 100 hours of work invested in it. This work is expected to be directly useful to the subsequent experimental studies.</p>			
Programme module type:	Compulsory for Single and Joint Honours Physics B.Sc.		
Pre-requisite(s):	At least one of PH3101, PH4105		
Anti-requisite(s):	AS4103, AS5101, PH5101, PH5102		
Learning and teaching methods and delivery:	<p>Weekly contact Project students work "half-time" on their project through semester two. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in research labs in the School, where members of research teams will provide supervision ranging from safety cover to assistance with equipment and discussion of interpretation of results – it is expected that the 20 hours a week will be primarily in this environment.</p>		
	Scheduled learning: 140 hours	Guided independent study: 160 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%</p>		
	<p>As used by St Andrews: Coursework (Review essay, Report and Oral Examination) = 100%</p>		
Module Co-ordinator:	Dr D Cassettari		
Lecturer(s)/Tutor(s):	Dr D Cassettari and School staff		

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PH4112 Physics Project (Non-graduating - 120)				
SCOTCAT Credits:	120	SCQF Level 10	Semester:	Whole Year
Academic year:	2012/3			
Availability restrictions:	Available to non-graduating students only, by arrangement			
Planned timetable:	No specific hours.			
<p>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.</p> <p>The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project and usually also by other members of a research team. Many projects will be carried out in the School's research labs, but other arrangements are possible. There is no guarantee that this project will be available.</p>				
Programme module type:	Non-graduating students only.			
Learning and teaching methods and delivery:	Weekly contact: As a minimum, weekly meetings with supervisor.			
Assessment pattern:	As used by St Andrews: Coursework (reports, presentation, and oral examination) = 100%			
Module Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari			

PH4113 Physics Project (Non-graduating - 60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Either
Academic year:	2012/3			
Availability restrictions:	Available to non-graduating students only, by arrangement			
Planned timetable:	No specific hours.			
<p>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.</p> <p>The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project and usually also by other members of a research team. Many projects will be carried out in the School's research labs, but other arrangements are possible. There is no guarantee that this project will be available.</p>				
Programme module type:	Non-graduating students only			
Learning and teaching methods and delivery:	Weekly contact: Weekly meetings with supervisor.			
Assessment pattern:	As used by St Andrews: Coursework (reports, presentation, and oral examination) = 100%			
Module Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari			

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PH5002 Foundations of Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
This module consists of seven parts: (i) classical and quantum systems; (ii) vector spaces, Hilbert spaces, operators and probability; (iii) basic postulates of quantum mechanics for observables with discrete spectra; (iv) illustrative examples; (v) treatment of continuous observables in terms of probability distribution functions and the spectral functions; (vi) quantum theory of orbital and spin angular momenta, Pauli-Schrodinger equation and its applications; (vii) introduction to relativistic quantum mechanics.				
Programme module type:	Compulsory for Theoretical Physics, Theoretical Physics and Mathematics Optional for Astrophysics M.Phys., Physics M.Phys., Chemistry and Physics M.Sci.			
Pre-requisite(s):	PH3061 and PH3062, unless you are on a taught postgraduate programme.			
Required for:	Recommended, but not required, for PH5004			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr K K Wan			
Lecturer(s)/Tutor(s):	Dr K K Wan			

PH5003 Group Theory				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics M.Phys.			
Pre-requisite(s):	PH3061 and PH3062			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Prof J F Cornwell			
Lecturer(s)/Tutor(s):	Prof J F Cornwell			

PH5004 Quantum Field Theory			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2012/3		
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School		
Planned timetable:	To be arranged.		
<p>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 Feynman Diagrams in quantum field theory and many-body physics.</p>			
Programme module type:	Compulsory for Theoretical Physics and Theoretical Physics and Mathematics Optional for Astrophysics M.Phys., Physics M.Phys., Chemistry and Physics M.Sci.		
Pre-requisite(s):	PH3061, PH3062 and PH3073 or MT4507. PH5002 recommended.		
Co-requisite(s):	PH5002 is recommended but not compulsory.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%		
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework = 10%		
Module Co-ordinator:	Dr J M J Keeling		
Lecturer(s)/Tutor(s):	Dr J M J Keeling		

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PH5005 Laser Physics 2				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
	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.			
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3007, PH3061 and PH3062. PH4034 is recommended.			
Anti-requisite(s):	PH5018, PH5180			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour (open notes) Examination = 100%			
Module Co-ordinator:	Dr B D Sinclair			
Lecturer(s)/Tutor(s):	Dr B D Sinclair, Prof T F Krauss, Prof M H Dunn, Prof W Sibbett			

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PH5011 General Relativity			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics		
Pre-requisite(s):	PH3066 or PH3081 or PH3082, PH3075 or PH3081 or PH3082 or MT2003, Recommended PH3073 and PH4032, unless you are on a taught postgraduate programme.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Module Co-ordinator:	Dr H Zhao		
Lecturer(s)/Tutor(s):	Dr H Zhao		

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PH5012 Quantum Optics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
Quantum optics is the theory of light that unifies wave and particle optics. Quantum optics describes modern high-precision experiments that often probe the very fundamentals of quantum mechanics. The module introduces the quantisation of light, the concept of single light modes, the various quantum states of light and their description in phase space. The module considers the quantum effects of simple optical instruments and analyses two important fundamental experiments: quantum-state tomography and simultaneous measurements of position and momentum.				
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3061, PH3062, PH4028			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Korolkova			
Lecturer(s)/Tutor(s):	Dr N Korolkova, Dr F E W Koenig			

PH5014 The Interacting Electron Problem in Solids				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3002 or PH4039, PH3012, PH3061, PH3062			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Presentation plus Oral Examination = 50%			
Module Co-ordinator:	Prof A P Mackenzie			
Lecturer(s)/Tutor(s):	Prof A P Mackenzie			

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PH5015 Applications of Quantum Physics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
	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 laser cooling, 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 assessment based on tutorial work and a short presentation on a research topic.			
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3061, PH3062			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%			
Module Co-ordinator:	Prof K Dholakia			
Lecturer(s)/Tutor(s):	Prof K Dholakia, Dr MI Mazilu			

PH5016 Biophotonics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2012/3			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	To be arranged.			
	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 writing a specific news piece on a research paper, assessed tutorial sheets and a presentation. A visit to a biomedical research laboratory using various photonics methods will also be arranged.			
Programme module type:	Optional for Astrophysics M.Phys., Physics M.Phys., Theoretical Physics, Chemistry and Physics M.Sci., Theoretical Physics and Mathematics			
Pre-requisite(s):	PH4034 or PH4035			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%			
Module Co-ordinator:	Prof K Dholakia			
Lecturer(s)/Tutor(s):	Prof K Dholakia, Prof T F Krauss			

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PH5022 Organic Semiconductors and Liquid Crystal Displays			
SCOTCAT Credits:	10	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Availability restrictions:	Normally final year of M.Chem. Materials Chemistry programme		
Planned timetable:	To be arranged.		
<p>This "distance-learning" module describes the materials science and device physics that underpins modern display technologies. The module is delivered in a distance learning format. The syllabus includes a basic introduction to vector calculus for materials science and an overview of types of displays and characterisation of display properties. The module then focuses on two contemporary display technologies: liquid crystals and organic semiconductors. Topics covered include: semiconducting polymers; photoluminescence and electroluminescence; organic light-emitting diodes; liquid crystals phases; director, order-parameter and distortions; anisotropy and birefringence; operation of twisted nematic displays.</p>			
Programme module type:	Optional for Materials Chemistry		
Pre-requisite(s):	CH3712, PH3002, admission to the M.Sci. year in the Materials Chemistry programme		
Anti-requisite(s):	PH4027		
Learning and teaching methods and delivery:	Weekly contact: fortnightly tutorials		
	Scheduled learning: 5 hours	Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 1.5-hour Examination = 100%		
Module Co-ordinator:	Dr G A Turnbull		
Lecturer(s)/Tutor(s):	Dr G A Turnbull		

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PH5101 Physics Project (M.Phys.)			
SCOTCAT Credits:	60	SCQF Level 11	Semester: Whole Year
Academic year:	2012/3		
Availability restrictions:	Normally available only to those in the final year of an M.Phys. Physics or M.Sci. Chemistry and Physics degree programme		
Planned timetable:	To be arranged.		
<p>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 is normally related to the theme of the project. 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 most of the 60 credits' worth of work is undertaken in semester two.</p> <p>The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project and usually also by other members of a research team. Many projects will be carried out in the School's research labs, but other arrangements are possible. The review essay that precedes experimental work is worth 10 credits, ie should have about 100 hours of work invested in it. This work is expected to be directly useful to the subsequent experimental studies.</p>			
Programme module type:	Compulsory for Physics M.Phys. Either PH5101 or CH5441 is compulsory for Chemistry and Physics M.Sci.		
Pre-requisite(s):	PH3101		
Anti-requisite(s):	AS4103, AS5101, PH4111, PH5102		
Learning and teaching methods and delivery:	<p>Weekly contact: Project students work "full-time" on their M.Phys. project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in research labs in the School, where members of research teams will provide supervision ranging from safety cover to assistance with equipment and discussion of interpretation of results – it is expected that the 40 hours a week will be primarily in this environment.</p>		
	Scheduled learning: 300 hours	Guided independent study: 300 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>		
	<p>As used by St Andrews: Coursework (Review essay, Report, and Oral Examination) = 100%</p>		
Module Co-ordinator:	Dr D Cassettari		
Lecturer(s)/Tutor(s):	Dr D Cassettari		

Physics & Astronomy - Honours Level 2012/13 - August 2012

PH5102 Project in Theoretical Physics				
SCOTCAT Credits:	45	SCQF Level 11	Semester:	Whole Year
Academic year:	2012/3			
Availability restrictions:	Normally available only to those in the final year of a Theoretical Physics or Mathematics and Theoretical Physics degree programme.			
Planned timetable:	To be arranged.			
<p>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. Theoretical Physics 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 most of the 45 credits' worth of work is undertaken in semester two. The aim is that students provide the intellectual drive for the project work, and should take on a role similar to that of a research student in the School. Support will be offered by the academic staff member(s) supervising the project, but students should note that this is "their" project and the outcome is primarily dependent on their input.</p>				
Programme module type:	Compulsory for Theoretical Physics Either PH5102 or MT5999 is compulsory for Theoretical Physics and Mathematics			
Anti-requisite(s):	AS4103, AS5101, PH4111, PH5101			
Learning and teaching methods and delivery:	Weekly contact: Project students should spend approximately three quarters of their time in semester 2 working on the project. All students must meet weekly with their project supervisor, and attend fortnightly meetings with their peer-support group. Most of their time will be spent working on theoretical physics in an independent fashion, though with the opportunity to discuss things with their supervisor face to face or electronically. In addition, all theoretical physics project students are encouraged to attend the fortnightly meeting theoretical physics research seminars.			
	Scheduled learning: 27 hours		Guided independent study: 423 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (project reports, presentation, and oral examination) = 100%			
Module Co-ordinator:	Dr C Hooley			
Lecturer(s)/Tutor(s):	Dr C Hooley			

PH5183 Photonics Applications			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2012/3		
Availability restrictions:	This module is intended for students in the final year of an M.Phys. or M.Sci. programme involving the School.		
Planned timetable:	To be arranged.		
<p>Students on this module choose to do two of the following three sections:</p> <p>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 electronics 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.</p> <p>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.</p> <p>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.</p> <p>Students must not cover Biophotonics in both this module and PH5016/PH5264, and must not cover Optical Trapping and Atom Optics in both this module and PH5015/PH5267.</p>			
Programme module type:	Optional for Astrophysics M.Phys., Physics and Mathematics B.Sc., Physics M.Phys., Physics and Chemistry M.Sci., Theoretical Physics M.Phys.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and occasional tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: Coursework = 20%, 2-hour Written Examination = 80%		
Module Co-ordinator:	Prof T F Krauss		
Lecturer(s)/Tutor(s):	Prof T F Krauss, Prof K Dholakia, Dr A di Falco		

Physics & Astronomy - Honours Level 2012/13 - August 2012

PH5208 Semiconductor Physics and Devices			
SCOTCAT Credits:	10	SCQF Level 11	Semester: 1
Academic year:	2013/4		
Availability restrictions:	Distance Learning		
Planned timetable:	To be arranged.		
This is a distance-learning module covering the basic properties of semiconductor physics including their optical and electronic properties, and the low dimensional structures which may be constructed from them; and semiconductor devices ranging from pn junctions, solar cells, and LEDs to lasers, waveguides, optical amplifiers, optical modulators, and detectors.			
Programme module type:	Optional for Physics and Chemistry M.Sci.		
Learning and teaching methods and delivery:	Weekly contact: Material, tutorial support, and continuous assessment delivered at a distance by means of WebCT. Students are responsible for ensuring they have internet access. The course covers material equivalent to that covered in 30 conventional lectures.		
	Scheduled learning: 5 hours	Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%		
Module Co-ordinator:	Dr G A Turnbull		
Lecturer(s)/Tutor(s):	Dr G A Turnbull		

School of Psychology & Neuroscience

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

British Psychological Society (BPS) accreditation

Passes in PS3021, PS3022, PS3031, 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, or Social Anthropology. **This recognition is required for those who wish to gain employment as professional psychologists.**

Exchange schemes: 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.

Neuroscience - Single Honours B.Sc.

First Year:	80 credits: BL1101 and BL1102 and PS1001 and PS1002.
Second Year:	90 credits: BL2101 and PS2001 and PS2002 - with passes at grade 11 or better; 30 credits: BL2104 or BL2106 - with a pass at grade 11 or better.
Third Year:	80 credits: BL3303 and BL3313 and PS3032 and PS3035 and PS3037 and , normally, PS3038. Between 30 and 40 further credits: BL3000 - BL3399, PS3000 - PS3999, PS4040, with the approval of the Degree Controller.
Fourth Year:	At least 30 credits: BL4200 or BL4201 or PS4299; Further credits: BL4000 - BL4199, BL4203 - BL4289, (one of BL4291, BL4292, ID4001), PS4060 - PS4999, with the approval of the Degree Controller, to a total of 240 credits across Third and Fourth Years.

Psychology – Single Honours B.Sc. or M.A.

First Year:	40 credits: PS1001 and PS1002.
Second Year:	60 credits: PS2001 and PS2002 - with passes at grade 11 or better in both.
Third Year:	120 credits: PS3021 and PS3022 and PS3031 - PS3038 and PS4040.
Fourth Year:	45 credits: PS4050 and PS4060. 75 further credits: PS4000 - PS4099, except that up to 30 of these credits may be taken in another subject, with the approval of the School.

This degree is accredited by the British Psychological Society.

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

Psychology - Joint Honours B.Sc. or M.A. (without BPS recognition)	
(B.Sc. Honours) Psychology and one of: Biology, Computer Science, Economics, Mathematics	(M.A. Honours) Psychology and one of: Art History, Economics, English, Film Studies, French ^W , Geography, German ^W , International Relations, Italian ^W , Management, Mathematics, Mediaeval History, Modern History ^T , Philosophy, Social Anthropology, Theological Studies ^T Timetable clash exists, combination is subject to arrangement by both departments ^W Available also as 'With Integrated Year Abroad' degree
<p>Psychology element of Joint B.Sc. or M.A. Honours *:</p> <p>First Year: 40 credits: PS1001 and PS1002.</p> <p>Second Year: 60 credits: PS2001 and PS2002 - with passes at grade 11 or better in both.</p> <p>Third Year: 40 credits: PS3021 and PS3022 and PS4040; At least 20 credits: PS3031 - PS3034, (PS3035 or PS3036), (PS3037 or PS3038).</p> <p>Fourth Year: 40 credits: PS3031 and PS3032 and PS3033 and PS3034, unless taken in Third Year; 20 credits: (PS3035 or PS3036) and (PS3037 or PS3038), unless taken in Third Year; Further credits: PS3000 - PS4099, to a maximum of 155 credits from these modules across Third and Fourth Years. <i>Students in Biology and Psychology Joint Honours must take PS4050 or BL4200 or BL4201 or BL4202 in Fourth Year.</i></p> <p>In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p> <p>* BPS accreditation is not possible for all combinations with other Joint Honours subjects. For specific Joint Honours combinations which provide BPS accreditation, see below.</p>	

Psychology - Joint Honours B.Sc. or M.A. (with BPS recognition)	
(B.Sc. Honours) Psychology and one of: Biology, Computer Science, Mathematics* * May be possible with permission from the Director of Teaching in the School of Mathematics & Statistics.	(M.A. Honours) Psychology and one of: English, Film Studies, German, Italian, Philosophy, Social Anthropology
<p>Psychology element of Joint M.A. or B.Sc. Honours (with BPS recognition):</p> <p>First Year: 40 credits: PS1001 and PS1002.</p> <p>Second Year: 60 credits: PS2001 and PS2002 - with passes at grade 11 or better in both.</p> <p>Third Year: 40 credits: PS3021 and PS3022 and PS4040; At least 20 credits: PS3031 - PS3034, (PS3035 or PS3036), (PS3037 or PS3038).</p> <p>Fourth Year: 40 credits: PS3031 and PS3032 and PS3033 and PS3034, unless taken in Third Year; 20 credits: (PS3035 or PS3036) and (PS3037 or PS3038), unless taken in Third Year; 30 credits: PS4050; Further credits: PS3000 - PS4099, to a maximum of 155 credits from these modules across Third and Fourth Years.</p> <p>In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p> <p>These degrees are accredited by the British Psychological Society.</p>	

Psychology 'with'... - Honours B.Sc. or M.A.	
(B.Sc. Honours) Psychology with Biology	(M.A. Honours) Psychology with Film Studies^N Psychology with Geography ^N Not available to entrants from 2012/13
<p>Psychology major element of Psychology with Biology B.Sc. Honours or Psychology with Film Studies/Geography M.A. Honours:</p> <p>First Year: 40 credits: PS1001 and PS1002.</p> <p>Second Year: 60 credits: PS2001 and PS2002 - with passes at grade 11 or better in both.</p> <p>Third Year: 40 credits: PS3021 and PS3022 and PS4040; 60 credits: PS3031 - PS3034, (PS3035 or PS3036), (PS3037 or PS3038), except that up to 20 of these credits may be taken in Fourth Year.</p> <p>Fourth Year: 20 credits: PS3031 - PS3034, (PS3035 or PS3036), (PS3037 or PS3038), unless taken in Third Year; 30 credits: PS4050; 30 credits from PS4060 - PS4099; Further credits from PS3000 - PS4099, to a total of between 160 and 180 credits from these modules across Third and Fourth Years.</p> <p>In total, 240 credits must be achieved at 3000 and 4000 level, including at least 90 credits at 4000 level.</p> <p>These degrees are accredited by the British Psychological Society.</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.

Psychology (PS) Modules

PS3021 Research Design and Analysis 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 11.00 am / 2:00 - 5:00 pm Mon.			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology degrees with BPS recognition, Psychology with Biology, Psychology with Film Studies. Compulsory for BPS Recognition. Optional for Joint Honours Psychology without BPS recognition.			
Required for:	PS3022			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar.			
	Scheduled learning: 55 hours		Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr M W Oram			
Lecturer(s)/Tutor(s):	Dr M W Oram			

PS3022 Research Design and Analysis 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 11.00 am / 2:00 - 5:00 pm Mon.			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology degrees with BPS recognition, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory for BPS Recognition. Optional for Joint Honours Psychology without BPS recognition.			
Pre-requisite(s):	PS3021			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar.			
	Scheduled learning: 55 hours		Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Written Examination = 60%			
Module Co-ordinator:	Dr P Foldiak			
Lecturer(s)/Tutor(s):	Dr P Foldiak and Mr P Gardner			

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PS3031 Conceptual Issues and Theoretical Perspectives				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu. (first half of semester)			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (only first half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Mr P L Gardner			
Lecturer(s)/Tutor(s):	Mr P L Gardner			

PS3032 Assessment in Clinical Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu. (second half of semester).			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (second half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr A A Kehagia			

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PS3033 Developmental Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu. (first half of semester)			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Anti-requisite(s):	PS3010 and PS3011			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (first half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof D A Whiten			
Lecturer(s)/Tutor(s):	Prof D A Whiten			

PS3034 Social Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue. (first half of semester)			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (first half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr N Tausch			
Lecturer(s)/Tutor(s):	Dr N Tausch			

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PS3035 Cognitive and Behavioural Neuroscience				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue. (first half of semester).			
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.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3035 or PS3036 is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (first half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr I Jentzsch			
Lecturer(s)/Tutor(s):	Dr I Jentzsch			

PS3036 Evolutionary and Comparative Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue. (second half of semester).			
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.				
Programme module type:	Compulsory for Single and Joint Honours Psychology. Either PS3035 or PS3036 is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (second half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			

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PS3037 Perception				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue. (second half of semester).			
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.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3037 or PS3038 (normally PS3038) is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (second half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr C N Jonas			
Lecturer(s)/Tutor(s):	Dr C N Jonas			

PS3038 Cognition				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu. (second half of semester).			
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.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3037 or PS3038 (normally PS3038) is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 3-hour laboratory class or seminar (second half of semester).			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100%			
Module Co-ordinator:	Dr J G Quinn			
Lecturer(s)/Tutor(s):	Dr J G Quinn			

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PS4040 Psychology Review				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	0
Planned timetable:	Not applicable.			
<p>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.</p>				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory for BPS Recognition.			
Co-requisite(s):	PS3021 and PS3022. This module is normally completed in the first year of the Honours Programme.			
Learning and teaching methods and delivery:	Weekly contact: Individual supervision by pre-assigned member of staff.			
	Scheduled learning: 10 hours		Guided independent study: 90 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Review = 100%			
Module Co-ordinator:	Dr J G Quinn			
Lecturer(s)/Tutor(s):	Dr J G Quinn			

PS4050 Psychology Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	0
Planned timetable:	Not applicable.			
<p>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.</p>				
Programme module type:	Compulsory for Single and Joint Honours Psychology with BPS recognition. BL4200 or BL4201 or PS4050 are compulsory for Neuroscience. BL4200 or PS4050 is compulsory for Psychology with Biology. Compulsory for BPS Recognition.			
Pre-requisite(s):	PS4040, PS3021 and PS3022.			
Learning and teaching methods and delivery:	Weekly contact: Individual supervision by pre-assigned member of staff			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr J G Quinn			
Lecturer(s)/Tutor(s):	Dr J G Quinn			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4060 Review Essay				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	0
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Single Honours Psychology. Optional for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography.			
Anti-requisite(s):	BL4200			
Learning and teaching methods and delivery:	Weekly contact: 3 x 2-hour workshops in Semester 1			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Essay = 100%			
Module Co-ordinator:	Dr J G Quinn			
Lecturer(s)/Tutor(s):	Prof V J Brown			

PS4064 Working Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Wed.			
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 models 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.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr J G Quinn			
Lecturer(s)/Tutor(s):	Dr J G Quinn			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4066 Neural Modelling				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am Fri.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr P Foldiak			
Lecturer(s)/Tutor(s):	Dr P Foldiak			

PS4069 Group Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Mon.			
<p>This module aims to develop an advanced understanding of selected topics relating to the psychology of groups and collective behaviour. It will address how behaviour is affected by the group context and examine the psychological mechanisms which shape how people act as group members. 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 social psychology. More detailed module content will be announced in advance of student choices.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Prof S Reicher			
Lecturer(s)/Tutor(s):	Prof S Reicher			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4071 Behavioural Neuroscience				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Fri.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology degrees, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr E M Bowman			
Lecturer(s)/Tutor(s):	Dr E M Bowman			

PS4074 Cognitive Psychology and the Emotional Disorders				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	NOT AVAILABLE 2012/3			
Planned timetable:	11.00 am - 1.00 pm			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr B Dritschel			
Lecturer(s)/Tutor(s):	Dr B Dritschel			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4083 Psychology of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Mon.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr I Jentzsch			
Lecturer(s)/Tutor(s):	Dr I Jentzsch			

PS4084 The Psychology of Visual Art				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Thu.			
<p>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 or 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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr P B Hibbard			
Lecturer(s)/Tutor(s):	Dr P B Hibbard			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4085 Evolution and Development of Social and Technical Intelligence				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Thu.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography Optional for M.Sc. Evolutionary and Comparative Psychology: the Origins of Mind.			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof D A Whiten			
Lecturer(s)/Tutor(s):	Prof D A Whiten			

PS4086 Origins and Evolution of Mind Reading (Theory of Mind)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Tue.			
<p>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, emphasising both empirical and conceptual aspects posed by the combination of the evolutionary and developmental approaches.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography Optional for M.Sc. Evolutionary and Comparative Psychology: the Origins of Mind.			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr J-C Gomez			
Lecturer(s)/Tutor(s):	Dr J-C Gomez			

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PS4088 Emotion				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed.			
<p>This seminar-based module involves readings and discussions on psychological theories of human emotion. The following questions are examined in detail: What constitutes an emotion? Are there basic emotions universal to all humans? Or do experiences of emotion differ across cultures? How are emotions different (or the same) from moods and feelings? The module includes topics on emotion and motivation; social psychological perspectives on emotion; the interface between affect and cognition; cultural variation in emotion; biological and evolutionary bases; and papers on specific emotions such as anger, happiness, guilt, shame, and disgust. Critical analysis of theory and research on emotion is emphasised.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework = 25%, Written Examination = 75%			
Module Co-ordinator:	Dr S Sheikh			
Lecturer(s)/Tutor(s):	Dr S Sheikh			

PS4089 Neural Basis of Episodic Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Fri.			
<p>This module will examine how the brain enables us to remember information from our personal experience. It will present students with cutting edge research using both humans and animals that gives us an insight into how the psychological components of episodic memory can be represented and processed by the brain. We will go on to look at how this type of research is applied in fields such as future thinking and memory decline in dementia. The course will include lectures and student presentations based around current research articles in the field.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus tutorial time.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J A Ainge			
Lecturer(s)/Tutor(s):	Dr J A Ainge			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4090 Face Perception and Human Attraction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Wed.			
<p>This advanced-level module will focus on face perception. The aim is to provide understanding of the development and evolutionary basis of driving forces behind human relationships and knowledge of the biological basis and psychological manifestations of these influences. Topics include: the neural basis of face attraction; development of face preferences; hormone influences on preferences and competition; sexual selection, kin selection; facial cues to health and social behaviour. Teaching will be based on the origin of individual differences, and the interaction between experience and biological factors in shaping human mate choice.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Learning and teaching methods and delivery:	Weekly contact: 0.5-hour lectures, 3.5-hour seminars and 1-hour tutorials throughout the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof D Perrett			
Lecturer(s)/Tutor(s):				

PS4091 Modelling and Computer-aided Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	11.00 am - 1.00 pm Tue.			
<p>As research becomes ever more computationally intense, the ability to use modern research software is becoming indispensable. This practical module will offer an introduction to computational modelling and provide you with the skills necessary to apply it in your research. Emphasis will be put on using scientific scripting languages in a research context. This module will build on the statistical techniques learned in previous modules and introduce modelling techniques, and imaging, stimulus presentation, and data visualisation.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Pre-requisite(s):	PS3021, PS3022			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar plus tutorial time.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Examination = 60%			
Module Co-ordinator:	Dr D W Hunter			
Lecturer(s)/Tutor(s):	Dr D W Hunter			

Psychology & Neuroscience - Honours Level 2012/13 - September 2012

PS4299 Neuroscience Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	0
Planned timetable:	To be arranged with the supervisor.			
<p>This project will involve extensive laboratory or field research to investigate a defined problem within biology or psychology, 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 Psychology and Neuroscience or the School of Biology who will guide and advise them in research activities throughout the academic year.</p>				
Programme module type:	BL4200 or BL4201 or PS4299 compulsory for Neuroscience			
Anti-requisite(s):	BL4200, BL4201			
Learning and teaching methods and delivery:	Weekly contact: Meetings with supervisor.			
	Scheduled learning: 33 hours		Guided independent study: 567 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 35%, Coursework = 65%			
	As used by St Andrews: Coursework = 65%, Practical Examination = 35%			
Module Co-ordinator:	Prof K T Sillar			

Sustainable Development

B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

Exchange schemes: 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.

Sustainable Development - Single Honours B.Sc. or M.A.	
First Year:	20 credits: SD1001 or SD1003; Sufficient credits from 1000-level modules in a partner subject to permit progression to 2000-level (see accompanying list).
Second Year:	60 credits: SD2001 and SD2002 – with passes at grade 11 or better in both; Sufficient 2000-level credits in the partner subject with pass(es) at the required grade to permit entry to Honours. (Exceptions to this may only be made with the permission of the Director of Teaching.)
Third Year:	Between 30 and 60 credits: SD3201 - SD3204; Up to 60 credits: SD3220 - SD3299; Further credits: 3000- or 4000-level modules in partner subject(s), if necessary, to a total of 120 for the Year.
Fourth Year:	Between 10 and 20 credits: SD4121 or SD4221; 20 credits: SD4222 - SD4289; 60 credits: SD4299; Further credits: 3000- or 4000-level modules in partner subject(s) to a total of 120 for the Year.

Partner Subjects agreed for 2012-13: Biology, Chemistry, Computer Science, English, Film Studies, Geography, History, International Relations, Management, Mathematics & Statistics, Modern Languages, Psychology, Social Anthropology (only for certain modules and only if space available).

Partner subjects are drawn from those Schools and departments across the University which have agreed to partner with Sustainable Development and thus allow SD students to access Honours modules, provided they meet the Honours entry requirement for that subject. SD students will gain access to these modules via the SD Honours Adviser and the Honours Adviser for each subject, who will be able to explain any relevant exceptions to the above.

Honours Modules agreed for Sustainable Development students in 2012-13: In addition to the Partner Subject arrangements above, the following modules are available to all students who have achieved Honours entry in Sustainable Development (see individual School listings for details):

Biology: BL3000*, BL3320, BL3306, BL3308*, BL3309*, BL3316, BL3318, BL4259, BL4266, BL4268, BL4269, BL4282, BL4291, BL4293 (* *The co-requisites for these modules may be waived for Sustainable Development students*); **Chemistry:** CH4515, CH4613, CH4712; **English:** EN3202; **Geography:** GG3221 - GG3231, GG3260 – GG3269, GG3301, GG3302; **Interdisciplinary:** ID4001; **Management:** MN4227, MN4238, MN4266; **Modern History:** MO3023, MO3314

Sustainable Development (SD) Modules

SD3201 Interdisciplinary Research Design and Methodology				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>This module occupies a central place in the new field-based research-orientated SD degree. It prepares students to undertake their independent research dissertation and develops transferable professional skills useful beyond graduation. Students will learn about research design and the collection of original empirical data through engagement with a series of problem-based SD-related issues. Themes covered include, among others, what is "interdisciplinarity"; the relationship between ontology, epistemology, and methodology; ethics of research; basic statistics for sustainable development; and quantitative, qualitative, and physical science research methods. There is opportunity for streaming and choice amongst units covering these themes. Skills and techniques learned are applied during a week-long residential field class where students will design and execute an original empirical research project with a staff mentor. The module concludes with students producing an independent research proposal for their Senior Honours dissertation projects.</p>				
Programme module type:	One of SC3201 - SD3204 is compulsory for Sustainable Development			
Anti-requisite(s):	SD3202, SD3203, SD3204			
Learning and teaching methods and delivery:	Weekly contact: 6 hours of lectures, 3 hours of seminars, 3 hours of practicals, 3 hours of tutorials plus separate week of fieldwork			
	Scheduled learning: 193 hours		Guided independent study: 407 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 100% Each unit in the module will have different forms of coursework assessments. In addition, students will have to produce a group presentation, based upon the work done during the fieldclass, which will be individually assessed.			
Module Co-ordinator:	Dr E Ferraro			

Sustainable Development - Honours Level 2012/13 - August 2012

SD3202 Research Methods in Sustainable Development			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Planned timetable:	To be arranged.		
<p>This module is the core research design and methods training module preparing students for their Honours dissertation and providing some transferable skills for postgraduate study and professional career development. It is designed to prepare students for undertaking original empirical research by introducing them to the general principles, methodologies, and methods used in the collection and generation of data. It prepares students to undertake their independent research dissertation, and will provide transferable skills useful beyond graduation.</p>			
Programme module type:	One of SC3201 - SD3204 is compulsory for Sustainable Development		
Pre-requisite(s):	SD2001 and SD2002		
Anti-requisite(s):	SD3201, SD3203, SD3204		
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture, 1-hour seminar, 0.5-hour practical, 0.5-hour tutorial plus separate week of fieldwork		
	Scheduled learning: 79 hours	Guided independent study: 221 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%		
	As used by St Andrews: Coursework = 100% Each unit in the module will have different forms of coursework assessments. In addition, students will have to produce a group presentation, based upon the work done during the fieldclass, which will be individually assessed.		
Module Co-ordinator:	Dr E Ferraro		

Sustainable Development - Honours Level 2012/13 - August 2012

SD3203 Interdisciplinary Research in Sustainable Development				
SCOTCAT Credits:	50	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>This is a practical-led training course in research design, data collection and analysis. Students will discuss the philosophy of SD research; the relationship between ontology, epistemology and methodology; and ethics. The module is organised around problem-based exercises; data collection through a variety of methods (interviews; questionnaires; surveys; and the likes). It includes a week-long research-based field class in which students, under the guidance of members of staff, will have the opportunity to design, implement and write up a research project. The module provides essential training for the independent Senior Honours dissertation project.</p>				
Programme module type:	One of SC3201 - SD3204 is compulsory for Sustainable Development			
Anti-requisite(s):	SD3201, SD3202, SD3204			
Learning and teaching methods and delivery:	Weekly contact: 4 hours of lectures, 2 hours of seminars, 2 hours of practicals, 1 hour of tutorials plus separate week of fieldwork			
	Scheduled learning: 142 hours		Guided independent study: 358 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 12%, Coursework = 88%			
	As used by St Andrews: Coursework = 100% Each unit in the module will have different forms of coursework assessments. In addition, students will have to produce a group presentation, based upon the work done during the fieldclass, which will be individually assessed.			
Module Co-ordinator:	Dr E Ferraro			

Sustainable Development - Honours Level 2012/13 - August 2012

SD3204 Method, Field , Data: Doing Research in Sustainable Development				
SCOTCAT Credits:	40	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged.			
<p>This module is a core research design and methods training module. It is organised around a series of problem-based learning units where introductory lectures lead onto the practical implementation of particular methods. The focus is on the collection and generation of data which will lead onto the rigorous analysis of data in Senior Honours. It includes a week-long research-based fieldclass organised around the design and implementation of a specific research project. The module provides fundamental training for the independent Senior Honours dissertation project.</p>				
Programme module type:	One of SC3201 - SD3204 is compulsory for Sustainable Development			
Pre-requisite(s):	SD2001 and SD2002			
Anti-requisite(s):	SD3201, SD3202, SD3204			
Learning and teaching methods and delivery:	Weekly contact: 4 hours of lectures, 2 hours of seminars, 2 hours of practicals, 1 hour of tutorials plus separate week of fieldwork			
	Scheduled learning: 134 hours		Guided independent study: 266 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 100% Each unit in the module will have different forms of coursework assessments. In addition, students will have to produce a group presentation, based upon the work done during the fieldclass, which will be individually assessed.			
Module Co-ordinator:	Dr E Ferraro			

Sustainable Development - Honours Level 2012/13 - August 2012

SD3221 Frontiers in Sustainability Research: Do Good Lives Cost the Earth?				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	To be arranged.			
<p>Material wealth has arguably created a 'culture of surplus' through which the pursuit of improved personal well-being has involved ever greater consumption of material goods, leaving in its wake a legacy of environmental problems (Ryan and Deci 2001). Yet across the world, people have often reported having long and happy lives ('happy life years'), whilst consuming different levels of resources (Seaford 2011). The security of these resources varies enormously too with potential implications for well-being, and much of this security is changing with increasing global connectivity and shifts from subsistence to monetary economies (Fazey et al., 2011). This module draws on evidence and literature from across several disciplines (for example, geography, psychology, sociology, politics) to explore the relationship between personal well-being and planetary well-being (via environmental behaviour).</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	SD2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures, plus occasional seminars and tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr L A Reid			

Sustainable Development - Honours Level 2012/13 - August 2012

SD4002 Dissertation in Sustainable Development			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Availability restrictions:	Available only to students who intend an Honours Degree in Sustainable Development.		
Planned timetable:	To be arranged.		
<p>This module is largely based upon independent study. 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 Senior Honours. 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. Students attend 1 seminar every other week; further class sessions can be organised on request by the class; dissertation clinics are organised where students can discuss their dissertation progress with members of staff; individual tutorials are decided between the individual student and their supervisors. The dissertation will normally be based in the disciplinary area of the student's partner subject, but in recognition of the interdisciplinary nature of the field of study of sustainable development and of the SD Programme, the dissertation will itself be interdisciplinary to some extent. The dissertation is a maximum of 15,000 words in length. Students present their findings at a dissertation conference and write an abstract to convey their results to an academic audience.</p>			
Programme module type:	Compulsory for Sustainable Development		
Anti-requisite(s):	SD4299		
Learning and teaching methods and delivery:	Weekly contact: 1 introductory lecture and tutorial and then meetings as required with supervisor.		
	Scheduled learning: 30 hours	Guided independent study: 570 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%		
	As used by St Andrews: Coursework = 100%		
Module Co-ordinator:	Dr D Simatele		

Sustainable Development - Honours Level 2012/13 - August 2012

SD4003 Designing Sustainable Systems: Case Studies in Sustainable Development			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Planned timetable:	10.00 am Tue and Wed, 1.00 - 4.00 pm Thu.		
<p>This module builds upon the knowledge and skills students acquired in SD3003. Like SD3003, this interdisciplinary module is taught collaboratively by staff from several Schools. Each of the case studies in this module is taught by staff from more than one academic discipline. Issues covered normally include agriculture and food production, distribution and consumption; sustainable fisheries; mining and sustainable development; and conclude with a detailed analysis of a regional case study to permit analysis of the complexity of sustainable development in practice. Examples from around the world will be used to illustrate theory and field visits will assist students to understand practical aspects of sustainability. Design thinking is used to link theory and practice. Students will draw upon the interdisciplinary skills they acquired in SD3003 but these skills will be enhanced to deal with examples that demand more advanced quantitative and qualitative analysis techniques. These skills will serve students in their research dissertation.</p>			
Programme module type:	Compulsory for Sustainable Development		
Pre-requisite(s):	SD3003	Anti-requisite(s):	SD4001
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 practical/tutorial and 4 days field class.		
	Scheduled learning: 55 hours	Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Examination = 50%		
Module Co-ordinator:	Prof C Hunter		

InterDisciplinary (ID) Modules

ID4001 Communication and Teaching in Science			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to final year students who have been accepted following application and interview in the preceding semester.		
Planned timetable:	Flexible		
<p>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.</p>			
Programme module type:	Optional for degrees in the Faculty of Science who meet the appropriate criteria.		
Learning and teaching methods and delivery:	Weekly contact: Occasional tutorials and a half-day training session.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 55%, Coursework = 45%		
	As used by St Andrews: Coursework = 100% comprising: Written report on the placement (35%) Teacher's assessment of student's placement (25%) Oral presentation (30%) Project proposal (10%)		
Module Co-ordinator:	Prof A K Tobin		

InterDisciplinary - Honours Level 2012/13 - August 2012

ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to students in the Schools of Divinity, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.		
Planned timetable:	To be arranged.		
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.			
Programme module type:	Optional for Divinity, Geography, History, International Relations, Modern Languages or Philosophy.		
Co-requisite(s):	If taken within Divinity, History, International Relations or Philosophy, a further 15-credit subject-specific module may be required.		
Learning and teaching methods and delivery:	Weekly contact: The module commences with an Induction Event at the University (3 hours). Students spend a minimum of 20 hours during the semester at their placement. 3 x 1-hour tutorials are held at the University during the semester. The module concludes with an oral presentation session.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%		
	As used by St Andrews: Coursework = 100% comprising: Written project proposal (10%) + written report (35%) = 45% Oral presentation (at University, assessed by module lecturers) = 30% A further 25% of Coursework is in the form of a report by their placement-mentor on the student's practical performance in the classroom on placement.		
Module Co-ordinator:	Dr E Stoddart		

ID4441 Combined Chemistry and Geology Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Planned timetable:	2 days per week.			
The research project at Level 4000 for Chemistry and Geology 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.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology			
Pre-requisite(s):	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geology			
Anti-requisite(s):	CH4442-CH4448, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Reflection, laboratory work, library work, written and oral presentation preparation.			
	Scheduled learning: 34 hours		Guided independent study: 466 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr T A Raub (Earth Sciences), Dr A Aitken (Chemistry)			

ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged.			
This module provides an individual research project on a topic spanning the biological and geological sciences 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. The project will be supported by advisors in both Biology and Geology. 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). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for B.Sc. Honours programme in Biology and Geology			
Pre-requisite(s):	Admission to BSc Honours programme in Biology and Geology			
Learning and teaching methods and delivery:	Weekly contact: Individual supervision by member(s) of teaching staff			
	Scheduled learning: 20 hours		Guided independent study: 430 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Research proposal = 5%, Oral Presentation = 10%, Dissertation = 85%			
Module Co-ordinator:	Dr T Raub			
Lecturer(s)/Tutor(s):	Dr T Raub			

InterDisciplinary - Honours Level 2012/13 - August 2012

ID5059 Knowledge Discovery and Datamining			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2012/3		
Availability restrictions:			
Planned timetable:	To be arranged.		
<p>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, characterise 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 and 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.</p>			
Programme module type:	Optional for M.Sci. in Computer Science Optional for all other programmes in the School Compulsory for Applied Statistics and Datamining Taught Postgraduate Programme. Optional for Statistics Taught Postgraduate Programme.		
Pre-requisite(s):	Acceptance on to M.Math. Statistics M.Math. Mathematics, or M.Sc. programmes within the Schools of Mathematics & Statistics or Computer Science.		
Anti-requisite(s):	MT5759		
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examination = 60%, Practical Examination = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 40%, Written Examination = 60%		
Module Co-ordinator:	Dr C R Donovan and Dr T Kelsey		
Lecturer(s)/Tutor(s):	Dr C R Donovan and Dr T Kelsey		

B.A. (International Honours) The College of William & Mary

The general requirements are 480 SCOTCAT credits over a period of 4 years. 120 credits (equivalent to 30 William & Mary credit hours) are to be accumulated each year. One sub-honours year and one Honours year must be spent at each institution. To qualify for entry into Year 3 of the programme, a total of 240 SCOTCAT credits must be gained. The nature of these programmes permits some flexibility between Years 1 and 2 – and again between Years 3 and 4 – whereby a lighter credit load in one year at one institution can be compensated for by a heavier load at the other institution, or vice versa; however in all instances the critical credit totals must be achieved.

Degree Programmes	Programme Requirements:	
(B.A. International Honours): Economics	EITHER (480 credits) St Andrews Requirements:	OR (120 credit hours) William & Mary Requirements:
	Year 1: 40 credits from EC1001 and EC1002. 80 further credits at 1000 or 2000 level to be chosen in consultation with an Adviser of Studies.	Year 1: ECON101, ECON102, Interdisciplinary Core Module, and other modules yielding approximately 20 further credit hours, chosen in consultation with a Programme Adviser.
	Year 2: 60 credits with passes at 11 or better in EC2001, EC2002, EC2003, EC2004. 60 further credits at 1000 or 2000 level, of which at least 20 credits must be at 2000 level, to be chosen in consultation with an Adviser of Studies.	Year 2: ECON303, ECON304, ECON307, ECON331, Interdisciplinary Core Module and other modules yielding approximately 14 further credit hours, chosen in consultation with a Programme Adviser.
	Year 3: 75 credits from EC3201, EC3202, EC3203. 15 further 3000- or 4000-level credits in EC-coded modules. 30 further credits to be chosen in consultation with an Adviser of Studies (dip-down is possible).	Year 3: (ECON420 or ECON403), ECON461, ECON411, ECON476, ECON308. 6 further credit hours from ECON-coded modules and other modules yielding approximately 9 further credit hours, chosen in consultation with a Programme Adviser.
	Year 4: 75 credits from EC4201, EC4202 and EC4300 (Dissertation). 15 further 4000-level credits in EC-coded modules. 30 further credits to be chosen in consultation with an Adviser of Studies (dip-down is possible).	Year 4: ECON495, ECON496, ECON410, (ECON483 or ECON484), (ECON407 or ECON408). 6 further credit hours from ECON-coded modules. Other modules yielding approximately 9 further credit hours, chosen in consultation with a Programme Adviser.

Degree Programmes	Programme Requirements:	
(B.A. International Honours): English	EITHER (480 credits) St Andrews Requirements:	OR (120 credit hours) William & Mary Requirements:
	Year 1: 40 credits from EN1003 and EN1004. 80 further credits at 1000 or 2000 level to be chosen in consultation with an Adviser of Studies.	Year 1: ENGL204 and other modules to a total of 30 credit hours, chosen in consultation with the Programme Adviser.
	Year 2: 40 credits with passes at 11 or better in EN2003 and EN2004. 80 further credits at 1000 or 2000 level, of which at least 40 credits must be at 2000 level, to be chosen in consultation with an Adviser of Studies.	Year 2: ENGL203 and other modules to a total of 30 credit hours, chosen in consultation with the Programme Adviser.
	Years 3 and 4: requirements must be met in each of sections I-VI (at either institution)	
	I. 30 credits from EN3210, EN4409, EN4418, EN4419.	I. One from ENGL207, ENGL361 - ENGL366, ENGL371, ENGL414A, ENGL417B.
	II. 30 credits from EN4411, EN4414, EN4415, EN4416, EN4421.	II. One from ENGL419 - ENGL422, ENGL426.
	III. 60 credits chosen from two of the following groups: Group A: EN3111, EN3112, EN4311, EN4312, EN4314. Group B: EN3141 - EN4143, EN4341 - EN4344. Group C: EN3161 - EN3164, EN4361 - EN4364.	III. Two chosen from at least two of the following groups: Group A: ENGL315, ENGL322. Group B: ENGL323, ENGL324. Group C: ENGL331 - ENGL333, ENGL341 - ENGL343.
	IV. In Year 4 only: 30 credits from EN4399 (Dissertation).	IV. In Year 4 only: One from ENGL475, ENGL495, ENGL496.
	V. Further modules to make up the 180-credit core English requirement from any EN3000- and 4000-level modules not previously taken including: EN3201 - EN3211, EN4402 -EN4420	V. Further modules to make up the 45-credit hour core English requirement from modules not previously taken, including ENGL310, ENGL311, ENGL314, ENGL316, ENGL344, ENGL352, ENGL355 - ENGL360, ENGL380, ENGL411, ENGL412, ENGL414, ENGL416, ENGL417, ENGL465, ENGL480. Modules in creative writing and linguistics may also be taken.
	VI. Further credits to be chosen in consultation with an Adviser of Studies to meet breadth requirements and the overall total of 120 credits per year. Dip-down to (non-classifiable) 2000-level modules is possible).	VI. Further credits to be chosen in consultation with a Programme Adviser to meet breadth requirements and the overall total of 30 credit hours per year.

B.A. (International Honours) – Programme Requirements 2012/13 – August 2012

Degree Programmes	Programme Requirements:	
<p>(B.A. International Honours):</p> <p>History</p>	<p>EITHER (480 credits) St Andrews Requirements:</p>	<p>OR (120 credit hours) William & Mary Requirements:</p>
	<p>Year 1: 40 credits from HI-, ME-, MH- or MO-coded modules at 1000 or 2000 level.</p> <p>80 further credits at 1000 level, to be chosen in consultation with an Adviser of Studies. Normally this should include 40 credits from two consecutive modules at 1000 level in one language, plus 40 credits to meet breadth requirements.</p> <p>ID1003 and ID1004 are recommended.</p>	<p>Year 1: Four modules from two of the groups A-C. If groups A and B are chosen, one module must also be taken from group C.</p> <p>Group A: HIST121, HIST122. Group B: HIST111, HIST112. Group C: HIST131, HIST132, HIST141, HIST142, HIST161, HIST171, HIST172, HIST182, HIST191, HIST192.</p> <p>18 further credit hours, chosen in consultation with a Programme Adviser to meet breadth.</p>
	<p>Year 2: 40 credits from HI-, ME-, MH- or MO-coded modules at 2000 level, with passes at 11 or better.</p> <p>80 further credits, to be chosen in consultation with an Adviser of Studies. Normally this should include 40 credits from two consecutive modules at 2000 level in one language, plus 40 credits to meet breadth requirements.</p>	<p>Year 2: Normally a minimum of 12 credit hours in History, including at least one History module at 300 level (to meet progression criteria). Normally at least two modules continuing in the chosen language. Remainder of 30 credit hours chosen in consultation with an Adviser to achieve breadth requirements</p>
	<p>Year 3: Any two ME- or MO-coded 30-credit modules at 3000 level (existing anti-requisites apply).</p> <p>30 further 3000- or 4000-level credits in the subject core (i.e. ME-, MO- or the chosen language).</p> <p>30 further credits to be chosen in consultation with an Adviser of Studies (dip-down is possible).</p> <p>Advising should take account of the language requirement (see below). This will normally mean gaining 30 credits in the language taken in Years 1 and 2 at 3000 or 4000 level.</p>	<p>Year 3: Either HIST490C or HIST491C and four further from HIST300 - HIST499.</p> <p>Normally at least two modules continuing in the chosen language. Further credit hours to a total of 30, chosen in consultation with an Adviser to meet breadth requirements.</p>
	<p>Year 4: 30 credits from HI4998.</p> <p>60 4000-level credits in another ME- or MO-coded module.</p> <p>30 further credits to be chosen in consultation with an Adviser of Studies (dip-down is possible).</p> <p>Advising should take account of the language requirement (see below). This will normally mean gaining 30 credits in the language taken in Years 1 and 2 at 3000 or 4000 level.</p>	<p>Year 4: HIST490C, HIST495, HIST496, and three further from HIST300 – HIST499.</p> <p>Normally at least two modules continuing in the chosen language. Further credit hours to a total of 30, chosen in consultation with an Adviser to meet breadth requirements.</p>

	<p>Further Requirements:</p> <ul style="list-style-type: none">- no more than 60 credits must be gained from ME-, MO- or HI-coded 2000-level modules.- At least two modules must be completed in American History.- At least two modules must be completed in British and/or European History.- At least two modules must be completed in Non-Western History.- Students must, in the course of their degree programme, successfully complete at least one module in one of the approved languages (Arabic, German, French, Italian*, Latin, Russian, Spanish) in every semester (or, at least, no fewer than eight overall). For the sub-honours year at St Andrews, this normally means a total of no fewer than 40 credits in that language. These modules must be taken in one language: they must build on each other and they must, in the course of Years 3 and 4, include a total of no fewer than four advanced modules† (typically at or above the 300/3000-level) in the target language (amounting to a total of 60 StA credits or W&M equivalent).- Where a student has commenced a language unsuccessfully, they may (with the permission of the Adviser of Studies) change to a different language at the beginning of Year 2. The modules taken in Year 1 will then count towards the required overall total of 8 language modules; in this case, the number of advanced modules is reduced to two (30 StA credits or W&M equivalent).- French can only be commenced at intermediate/post-202 level).- All other approved languages can be begun at either elementary level (i.e. beginners) or at intermediate level, except Arabic which may only be begun at elementary level at St Andrews.- Once this language requirement has been met, students wishing to do so are welcome to consider taking classes in another language to widen their experience.- Summer language classes offered by W&M or St Andrews may count towards the requirement with the Adviser's prior approval. <p>* Students wishing to start studying Italian at W&M must begin with ITAL101. Because of limitations on W&M upper-level Italian offerings, they will typically spend their third year at St Andrews, where they will take three Italian modules, unless arrangements can be made for them to take two upper-level Italian modules in year 3 at W&M.</p> <p>† 30-credit Honours modules in Latin count as two advanced modules.</p>
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B.A. (International Honours) – Programme Requirements 2012/13 – August 2012

Degree Programmes	Programme Requirements:	
<p>(B.A. International Honours):</p> <p>International Relations</p>	<p>EITHER (480 credits)</p> <p>St Andrews Requirements:</p>	<p>OR (120 credit hours)</p> <p>William & Msary Requirements:</p>
	<p>Year 1: 80 credits from IR1005, IR1006, EC1001 and EC1002.</p> <p>40 further credits at 1000 or 2000 level. Language modules are recommended, but other complementary modules may be chosen in consultation with an Adviser of Studies.</p>	<p>Year 1: GOVT203, GOVT204, ECON101, ECON102, HIST192, INRL300.</p> <p>A Freshman Seminar OR Interdisciplinary Seminar (writing intensive).</p> <p>One from GOVT330, GOVT334 - GOVT339</p> <p>Approximately 5 further credit hours, chosen in consultation with a Programme Adviser to meet breadth requirements yielding a total of 30 credit hours for the year. Foreign Language modules recommended.</p>
	<p>Year 2: 40 credits with passes at 11 or better in IR2005 and IR2006.</p> <p>80 further credits at 1000 or 2000 level, of which at least 40 credits must be at 2000 level. Further Language or Economics modules are recommended, but other complementary modules may be chosen in consultation with an Adviser of Studies.</p>	<p>Year 2: GOVT327, HIST192, INRL300.</p> <p>One from GOVT301, ECON307.</p> <p>One from GOVT303 - GOVT305.</p> <p>One from GOVT324, GOVT325, GOVT328.</p> <p>A Freshman Seminar OR Interdisciplinary Seminar (writing intensive).</p> <p>Approximately 8 further credit hours, chosen in consultation with a Programme Adviser to meet breadth requirements yielding a total of 30 credit hours for the year. Foreign Language modules recommended.</p>
	<p>Year 3: 90 3000-level credits in IR-coded modules.</p> <p>30 further credits from IR or other complementary modules may be chosen in consultation with an Adviser of Studies. (dip-down is possible).</p>	<p>Year 3: No fewer than 24 credits must be gained from GOVT and INRL modules at the appropriate level.</p> <p>Other credit hours to be chosen in consultation with a Programme Adviser to meet breadth requirements.</p>
	<p>Year 4: 60 4000-level credits in IR-coded modules.</p> <p>30 credits from IR4099.</p> <p>30 further credits from IR- or other complementary modules may be chosen in consultation with an Adviser of Studies. (dip-down is possible).</p>	<p>Year 4: INRL495 - INRL496.</p> <p>No fewer than 24 credits must be gained from GOVT and INRL modules at the appropriate level.</p> <p>Other credit hours to be chosen in consultation with a Programme Adviser to meet breadth requirements.</p>

B.A. (International Honours) – Programme Requirements 2012/13 – August 2012

For details of St Andrews modules, see the appropriate School entries within this Catalogue. For modules at William & Mary, see
www.wm.edu/offices/registrar/documents/catalog/UGCatalog.pdf