

2013 - 2014

Honours Level Module Catalogue



University of
St Andrews

600
YEARS

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Introduction to the Honours Level Module Catalogue

The main body of the Catalogue is presented by in Sections relating to the eighteen Schools in the University. In addition, there is also a section for Interdisciplinary Modules (section 23).

Explanation of Fields in Module Entries

Module number and Title. Self explanatory - module numbers are unique. The third character indicates the module level.

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).

SCQF Level. The **Scottish Credit and Qualifications Framework (SCQF)** SCQF Levels provide an indication of the complexity of qualifications and learning programmes and are based on a single set of Level Descriptors that are the common reference points and definitions which provide a way of recognising learning that is outcome-based and quality-assured. 1000 level = SCQF 7, 2000 level = SCQF 8, 3000 level = SCQF 9, 4000 level = SCQF 10, 5000 level = SCQF 11.

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. The St Andrews teaching year has two semesters (September - December, and January - May).

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

Planned Timetable. Most 1000- and 2000-level modules are taught at a set hour, for one 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.

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

Pre-requisite(s). Modules or qualifications which must be passed prior to this module. 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(s). A module which must be taken in the same **semester** or academic session as the one listed.

Anti-requisite(s). 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.

Required for. Modules which require this module to be passed, as a pre-requisite to entry.

Programme module type. This indicates how the module fits into various programmes of study and whether it is compulsory or optional.

Learning and Teaching Methods and delivery. This gives **Weekly Contact** and the formal breakdown of **Scheduled Learning/Guided Independent Study** as defined by the Quality Assurance Agency (QAA).

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,

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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.

Scheduled Learning - time spent with an academic member of staff.

Guided Independent Study - time which a student is expected to undertake alone but often under direction.

Assessment pattern. 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 ("As used by St Andrews"), or they may differ slightly because some elements of Coursework (Class Tests for example) can be considered Written Examinations in this context.

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

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

School of Art History

Art History (AH) Modules

AH3104 The Age of Klimt, Olbrich and Mucha				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	3.00 pm - 5.00 pm Tue, and either 10.00 am or 11.00 am Wed			
<p>This module analyses the development of the central European variations of Art Nouveau known as the Secession Style. Focusing on the Austro-Hungarian empire (in particular the cities of Vienna, Budapest, Prague and Cracow), it examines the new art, architecture and design with regard to its aims and themes. Emphasis is placed on the relationship between the artistic search for cultural identity, the state and contemporary society. Issues of nationalism and supranationalism will be analysed in the course of studying the work of the Vienna Secession and Wiener Werkstätte, the Gödöllő colony, the Mánes and Sztuka societies. Major figures include Klimt, Wagner, Hoffmann, Olbrich, Lechner, Mucha, Rippl-Rónai and Wyspiański.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1x 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			

AH3116 Aspects of American Art in the Modern Period				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Tue and either 11.00 am or 12.00 noon Fri.			
<p>This module will examine key moments in the history of American art, concentrating on the period c.1880-1945. It is designed to explore the general trends and developments, key turning-points, and episodes of crisis. In this respect it will provide an art historical study of the period, while simultaneously examining theoretical and aesthetic shifts, and placing these changes within the context of social and historical events.</p>				
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			

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AH4078 Art and Politics in France, 1945 - 1975				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 - 5.00 pm Tue and either 10.00 am or 11.00 am Thu.			
<p>This module examines the major artists and groups in French postwar art through a consideration of aesthetic features and theoretical issues in tandem with their social and political context. The problems facing the neo-avant garde following the war will be assessed by looking at topics such as Dubuffet and Art Brut, Socialist Realism, Giacometti and Existentialist philosophy, abstract painting, Yves Klein and the 'New Realists', the Cobra group, the Situationists and the May '68 uprising, and post-1968 projects by Daniel Buren, Christian Boltanski and Annette Messager. Additional topics for discussion include the relationship of French culture to British and American culture, 1950s design, NewWave cinema, and the impact of the Cold War and the Algerian War.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 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 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
Academic year:	2013/4			
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 60 credits and completed over two semesters. It will be c. 12,000 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			
Anti-requisite(s):	AH4099			
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:	1 or 2
Academic year:	2013/4			
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 one semester. It will be c. 6,000 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 the semester, and (b) be required to attend one general lecture on research and at least one 50-minute supervisory meeting.</p> <p>(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			

AH4106 British Furniture (1840 - 1920)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12 noon – 2.00 pm and either 2.00 pm or 4.00pm Thu			
<p>The module begins with an introductory study of different methods of analysing furniture and from this foundation the syllabus moves from the transitional phase of furniture design at the beginning of Victoria's reign through the Antiquarian and Gothic revivals, reforms in the vocabulary of ornament, Neoclassical and Renaissance revivals, to the Arts and Crafts movement and progressive furniture in the late nineteenth and early twentieth centuries. Particular issues which will be addressed include regionalism, vernacular traditions, furniture design and manufacture, furniture as art and furniture designed by architects.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 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: 2-hour Written Examination = 30%, Coursework = 70%,			
Module Co-ordinator:	Mr D Jones			
Lecturer(s)/Tutor(s):	Mr D Jones			

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AH4108 Post-war Scottish Art 1950 - Present				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Tue, and either 11.00 am or 12.00 noon Fri.			
This module will explore subjects, issues, and themes in recent Scottish art. From an analysis of post-war abstraction, it will proceed to be a close study of the renaissance of figurative painting during the 1980s. Subsequent developments in Conceptualism, in the 1990s, will be examined in depth while the whole will be set inside the critical debates of modernism and post-modernism in the contemporary period.				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2 hour lecture, 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 T Normand			
Lecturer(s)/Tutor(s):	Dr T Normand			

AH4124 Art Nouveau in Western Europe				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm Mon and 9.00 am Tue and either 9.00 am or 10.00 am Wed			
This module will analyse the development of Art Nouveau from c.1890 to 1915 in the countries of Western Europe. Initially it will elaborate the variety of sources present in the movement (e.g. historicism, Japonism, national revival styles, symbolism and scientific advances). It will then move to a study of the regional centres of Art Nouveau production in order to examine how these sources appear and what is distinctive about the individual centres and artists. Foremost coverage will be given to Barcelona, Nancy, Paris, Munich, Darmstadt, Brussels and Glasgow. The course will include analysis of the themes of Art Nouveau: its representation of new (and old) world views, including its approach to technology, psychology, flight, movement, mass culture, gender, exhibitions and nature.				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1 hour lectures, 1 x 1 hour seminar.			
	Scheduled learning: hours		Guided independent study: 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			

AH4129 The Arts and Crafts Movement in Britain (1860 - 1916)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am - 11.00 am and either 2.00 pm or 3.00 pm Thu.			
As well as surveying the history of a movement which revitalised art and design at the end of the nineteenth century this module covers the work of selected architects, decorative artists, designers and craftspeople, including William Morris, C.F.A. Voysey, C.R. Ashbee, Ernest Gimson, W.R. Lethaby, Robert Lorimer, Phoebe Traquair and others. Among the themes discussed are the roles of architecture and the applied arts in the Arts and Crafts Movement, the dissemination of ideas through societies, exhibitions and publications, and the influence of craft practice on the development of a distinctive style. The Movement is also set in the context of contemporary ideas on design reform.				
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: 2-hour Written Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Ms A Carruthers			
Lecturer(s)/Tutor(s):	Ms A Carruthers			

AH4149 The Architecture of the Scottish Mediaeval Church				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am - 12.00 noon and either 2.00 pm or 3.00 pm Fri.			
This module will cover the ecclesiastical architecture of mediaeval Scotland from the period of the revival of the Church in the years around 1100 to the Reformation in 1560. It will consider the sequence and sources of the ideas that underlay the design of the churches, starting with the initial dependence on the contribution of masons brought in from England and to a lesser extent from Ireland, to the development of a synthesis of ideas in the later middle ages that drew on a much wider range of models. It will also consider the extent to which church buildings can be understood as an expression of a range of liturgical requirements.				
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:	Prof R Fawcett			
Lecturer(s)/Tutor(s):	Prof R Fawcett			

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AH4156 Seeing the Sixties				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Tue, 11.00 am Thu and either 9.00 am or 10.00 am Fri.			
<p>This module examines some of the most innovative art practices of the 1960s, predominantly in the United States, but also encompassing various art trends in Europe, Asia and South America. During this period, modernist preoccupations with the integrity of the medium yielded to a series of more diverse and competing approaches to art-making. Many of these we will be considering - from the collapse of high modernism, the rise of Pop Art, the phenomenon of Minimalism, the emergence of process art, anti-form, computer art, conceptual art, site-specificity, earth art, artist-initiated modes of political protest, feminist art, video art, and innovations in performance art. We shall examine some of the larger social and cultural pressures which informed these various positions. Throughout, the aim is to foster awareness that how we choose to understand the broader legacies of the Sixties will shape the way we view the art produced during this period.</p>				
Programme module type:	Optional Module 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 = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Dr A Rider			
Lecturer(s)/Tutor(s):	Dr A Rider			

AH4164 The Patronage of the Arts in the Este and Gonzaga Courts (c. 1440 - c.1590)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Mon and 10.00 am Tue and either 11.00 am Mon or 11.00 am Tue.			
<p>In the fifteenth and sixteenth centuries the courts of the Este in Ferrara and the Gonzaga in Mantua were relatively small in comparison to other Italian courts, yet their prestige was due in large measure to their patronage of the arts and to their strategic position of military influence between papal and imperial power. With their hunger for novelty, love of magnificence, and thirst for recognition, they played a key role in the dissemination and development of Renaissance ideas. Through an in-depth analysis of buildings, sculptures, manuscripts and paintings the module explores how the towns of Ferrara and Mantua were transformed into innovative artistic centres. Artists covered include Donatello, Piero della Francesca, Andrea Mantegna, Cosme Tura, Dosso Dossi, Titian, Leon Battista Alberti, Biagi o Rossetti, Giulio Romano, and many others.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, 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: 2-hour Written Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Dr L Moretti			
Lecturer(s)/Tutor(s):	Dr L Moretti			

AH4166 Histories of Photography, 1835 - 1905				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 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 L Gartlan			
Lecturer(s)/Tutor(s):	Dr L Gartlan			

AH4171 The Arts of Pilgrimage in the Middle Ages				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Wed and either 10.00 am, 11.00 am or 12.00 noon Thu.			
<p>Pilgrimage is travel toward a shrine or religious goal. Countless European Christians went on pilgrimages in the Middle Ages, traveling to the three largest shrines - Jerusalem, Rome, and Santiago - as well as to hundreds of smaller local shrines, including one at St Andrews, where worshippers flocked to see the relics of the apostle. How did images both shape and reflect their experience? This course considers imagery in a variety of media - including architecture, architectural sculpture, illuminated manuscripts and reliquary shrines - in its religious and political contexts. Topics include the function of pilgrimage architecture; the trade and theft of relics; the shifting interest in late medieval devotion toward the humanity of Christ and, along with it, the interest in walking in his footsteps in Jerusalem; local pilgrimages in the British Isles, France and the Low Countries; pilgrimage and miracles; virtual, imagined and penitential pilgrimage; pilgrims' souvenirs; and narratives of pilgrimage, both real and allegorical.</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 K Rudy			
Lecturer(s)/Tutor(s):	Dr K Rudy			

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AH4172 Manuscript Illumination in Western Europe				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 am - 11.00 am Wed and either 10.00 am, 11.00 am or 12.00 noon Thu.			
<p>This module considers the medieval manuscript from the fourth through the sixteenth centuries, with an emphasis on the illumination of the book. The subject will be bookended by two innovations, the development of the codex in favour of the roll in the Early Christian period, and the move from manuscript to print in the fifteenth and early sixteenth centuries. This course will not present an exhaustive survey of all manuscripts made in Western Europe, but will concentrate on certain themes: the physical construction of the manuscript; early Bible imagery; Insular decoration; scientific manuscripts; women as readers; and the interpretation of marginal imagery.</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 K Rudy			
Lecturer(s)/Tutor(s):	Dr K Rudy			

AH4207 Receptions of Venetian Painting 1600 - 1800				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	3.00 - 5.00 pm Thu and either 10.00 am or 2.00 pm Fri.			
<p>The sixteenth century is known as the 'golden age' of Venetian painting. It produced some of the finest art of the Western tradition, made by artists such as Giovanni Bellini, Giorgione, Titian, Pordenone, Tintoretto and Veronese. Yet, a 'golden age' is only born after the fact, and this module will define the legacy of sixteenth-century Venetian painting into the nineteenth century. Starting with the artistic reception of the Venetian Cinquecento by such renowned artists as Rubens, Rembrandt, Tiepolo and Reynolds, we will cover topics as wide-ranging as private collecting, print-making, artistic theory, early art museums, the rise of connoisseurship, theft and looting. We will examine current theories of reception as well as an abundance of period sources. Eventually, we will develop an understanding of one of the distinctive features of artworks in general: remaining when their makers have long passed, they take on ever new meanings and functions.</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 = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Dr E van Kessel			
Lecturer(s)/Tutor(s):	Dr E van Kessel			

AH4208 The Portrait in Western Art				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Wed, 12.00 noon Thu and either 3.00 pm or 4.00 pm Thu			
<p>Studying portraiture means studying representations of human faces. Most of the time, these are faces of people who lived long ago, and their portraits give us access to the way they looked, as well as the way they wanted to represent themselves to society. Yet portraits are also often highly complex constructions designed by major artists; as Leonardo had it, "every painter paints himself". So what exactly is it that a portrait portrays? Why did people commission their portraits, and what were they used for? What knowledge did people bring to looking at portraits? What did it mean for an artist to paint or sculpt a 'true likeness'? With a focus on the early modern period, yet including many excursions to both earlier and later periods, this module will address the above questions and more, approaching portraiture from a wide range of perspectives as well as focusing on some of the major practitioners and commissioners of the genre.</p>				
Programme module type:	Optional Module for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, 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 E van Kessel			
Lecturer(s)/Tutor(s):	Dr E van Kessel			

AH4211 Islam and the Arts				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 - 11.00 am and either 2.00 pm or 3.00 pm Thu			
<p>How did the religion of Islam affect the art produced in the Muslim world? This module will explore problems of iconoclasm in a wide context that includes pictures of the Prophet Muhammad, the conflict between orthodox Islam and Sufism and Shi'ism, and the Muslim treatment of Old and New Testament themes. Since the most obvious physical expression of Islam as a faith is in architecture, the module will look at the origins and development of some of the major Islamic buildings as well as the various elements that make up this architecture. The art of Qur'anic calligraphy and illumination will also figure largely, as will the role of inscriptions not only on religious buildings but in everyday contexts. Finally, the course will explore not only how the Islamic faith finds visual expression in modern times as a living force, but also what visual clichés have been developed by Western media for the hostile representation of Islam.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	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: 2-hour Written Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Prof R Hillenbrand			
Lecturer(s)/Tutor(s):	Prof R Hillenbrand			

Art History - Honours Level - 2013/14 - August 2013

AH4212 Cultures of Collection and Display, c. 1851 to the Present Day				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module focuses on the collection and display of art from the mid-nineteenth century to the present day. Following an introduction to the museum from Early Modern cabinets of curiosities to the rise of the public museum, topics will include exhibiting cultures at World's Fairs, the history and theory of the modern art museum, private collectors and their agendas, artists' interventions into gallery spaces, museums and globalization, and the display of art in alternative spaces. Famous collectors such as the Rockerfellers, Alfred Barnes, Peggy Guggenheim, and Charles Saatchi will be considered, and questions to be asked include: What has been the relationship between display and the history of modern art? What role have collectors played in the international art market? How should "primitive" art and artefacts be collected and displayed? What major ethical issues face art museums today? The module will be delivered through a combination of formal lectures, seminars, and group visits to galleries and exhibitions. Students are expected to frequent and critique exhibitions as part of their learning, and to maintain a learning journal.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	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 K Brown			

AH4230 Approaches to Art History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am - 12.30 pm Mon and either 3.30 pm - 5.00 pm Mon or 11.00 am - 12.30 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.			
Anti-requisite(s):	AH3130			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour lecture and 1 x 1.5-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 255 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 and Dr L Gartlan			
Lecturer(s)/Tutor(s):	Dr F Barry and Dr L Gartlan			

School of Biology

Biology (BL) Modules

BL3000 Field Course			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Planned timetable:	1-week residential course in summer vacation normally just prior to Orientation week plus further meetings in semester.		
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/Arabic, Biology and/or with Psychology, Biology and Geography, Evolutionary Biology.		
Anti-requisite(s):	BL3321, BL3322	Co-requisite(s):	BL3308 or BL3309
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 D M Shuker, Dr J Graves, Dr Defew, Dr Gollety, Mr Edwards		

Biology - Honours Level - 2013/14 - August 2013

BL3301 Protein Structure and Function				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed. 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, Behavioural 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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr U Schwarz-Linek			
Lecturer(s)/Tutor(s):	Dr U Schwarz-Linek, Prof G Taylor, Prof R Griffiths			

BL3302 Gene Regulation			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Planned timetable:	Lectures: 10.00 noon Mon, Tue and Wed. 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, and metabolic 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: 3-hour Written Examination = 66%, Coursework = 34%		
Module Co-ordinator:	Dr S Unkles		
Lecturer(s)/Tutor(s):	Dr D Barker, Dr P Coote, Dr A Koussounadis, Dr S MacNeill, Dr J Sleeman, Dr A Smith, Dr S Unkles, Prof M White		

Biology - Honours Level - 2013/14 - August 2013

BL3303 Membranes and Cell Communication				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed. Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Cell Biology. Optional for Biochemistry, Molecular Biology 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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Dr R Ramsay, Dr G Prescott, Dr S Unkles, Dr J Sleeman, Dr T Smith			

BL3307 Evolution				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	Lectures: 12 am Mon, Tue and Wed. 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; evolutionary developmental biology; 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, Marine Biology, Evolutionary Biology. Optional for Ecology and Conservation, Behavioural Biology, 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: 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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Prof T Meagher			
Lecturer(s)/Tutor(s):	Prof T Meagher, Dr D Ferrier, Dr D Barker, Prof K Laland, Prof M Ritchie,			

BL3308 Aquatic Ecology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed. Practicals: residential field trip.			
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 Marine Biology. Optional for Behavioural Biology, Ecology and Conservation, Biology, Biology and Geology, Evolutionary Biology, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Co-requisite(s):	BL3000	Required for:	BL4301	
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: 3-hour Written Examinations = 66%, Coursework = 34%			
Module Co-ordinator:	Dr I Matthews			
Lecturer(s)/Tutor(s):	Dr I Matthews, Prof C Todd, Dr P Miller, Dr R Aspden			

Biology - Honours Level - 2013/14 - August 2013

BL3309 Ecosystems and Conservation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Lectures: 10.00am Mon, Tue and Wed. 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, Marine Biology, and Behavioural Biology. Optional for Biology, Biology and Geology, Evolutionary Biology, Zoology and all 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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr W Cresswell			
Lecturer(s)/Tutor(s):	Dr W Cresswell, Dr S Northridge, Dr I Matthews, Prof T Meagher			

BL3310 Bioenergetics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Lectures: 12.00 noon Mon, Tue and Wed. 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. Optional for Molecular Biology 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: 3-hour Written Examination = 66%, Coursework = 34%			
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
Academic year:	2013/4			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed. 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, Zoology 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 Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Dr P Coote, Dr T Smith, Prof G Taylor, Dr D Jackson, Prof M Ryan			

BL3315 Developmental Biology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Lectures: 11.00 am Mon, Tue and Wed. Practicals: to be arranged.			
This module deals with the fascinating and rapidly changing field of Developmental Biology. It examines how an organism develops from an egg to an adult (including instances of metamorphosis), as well as how lost or damaged body parts can be regenerated. Also the interactions between development and ecology and evolution will be considered. There will be a focus on some of the typical model species used in developmental biology, including fruit flies, nematodes, mice and frogs, but this will be expanded to include other valuable comparative models, such as sea squirts, annelids, cnidarians and flatworms. The course will encompass multiple biological levels, from molecules, through cells and embryos, to the environment and the organism's evolutionary history. As such this module is of wide relevance to a range of other biological disciplines.				
Programme module type:	Optional for Neuroscience, Cell Biology, Evolutionary 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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr D Ferrier			
Lecturer(s)/Tutor(s):	Dr D Ferrier, Dr A Ojanguren, Dr G Miles, Prof Sillar, Dr I Somorjai			

Biology - Honours Level - 2013/14 - August 2013

BL3316 Animal Plant Interactions				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed. 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: 3-hour Written Examination = 66%, Coursework = 34%			
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			

BL3318 Biology of Marine Organisms				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Lectures: 12 noon Mon, Tue and Wed. 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 Behavioural Biology, Ecology and Conservation, Marine Biology. Optional for Evolutionary Biology, Zoology 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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr V Smith			
Lecturer(s)/Tutor(s):	Dr V Smith, Prof C Todd, Prof A Brierley, Prof P Hammond, 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
Academic year:	2013/4			
Planned timetable:	Lectures: 9.00 am am Mon, Tue and Wed. 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 Ecology and Conservation and Behavioural Biology. Optional for 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: 3-hour Written Examination = 66%, Coursework = 34%			
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			

BL3320 Statistical and Quantitative Skills for Biologists				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Few biologists are statisticians or mathematicians, but all biologists use statistics and mathematics. 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 and quantitative approaches, and how to manage and analyse data in a code driven statistical programming package. An introductory workshop 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.</p>				
Programme module type:	Compulsory for all Biology degrees.			
Required for:	BL4273			
Learning and teaching methods and delivery:	Weekly contact: Weekly contact: 1 day of lectures in Pre-sessional week, plus 6 x 3-hour practicals from Pre-sessional Week to Week 4.			
	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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr W Cresswell			
Lecturer(s)/Tutor(s):	Dr W Cresswell Dr G Ruxton, Ms L Sibbett, Dr A Smith Dr D Barker			

Biology - Honours Level - 2013/14 - August 2013

BL3321 Advanced Critical Analysis Reading Party				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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, Evolutionary Biology, Neuroscience and all Biology Joint and Major/Minor degree programmes			
Co-requisite(s):	Any 3000-level BL module	Anti-requisite(s):	BL3000, BL3322	
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 I Johnston, Dr J Sleeman, Dr G Prescott			

BL3322 Basic Biochemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Actually held 2 weeks before semester 1			
Planned timetable:	1 week in summer vacation just prior to Orientation week plus further meetings in semester			
This module aims to provide students with the basic skills for independent laboratory work and an opportunity to develop academic skills such as: the design of experiments; logistic planning; the gathering and assessment of data; and the presentation of results. In addition, transferable skills such as group work, working to deadlines, numeracy, critical reading of peer-reviewed literature, and presenting material (oral and written) will be developed. Importantly, the course will also be an opportunity to meet and work with others in the honours cohort. The practical element will emphasise techniques in protein biochemistry.				
Programme module type:	Optional for Biochemistry, Molecular Biology, Cell Biology, Biology			
Pre-requisite(s):	BL2101 and BL2104	Anti-requisite(s):	BL3000, BL3321	
Learning and teaching methods and delivery:	Weekly contact: Lectures, practical classes and tutorials.			
	Scheduled learning: 40 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R R Ramsay			

BL3400 Tropical Research and Field Study				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	4 weeks in field locations in summer vacation.			
<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			

BL4200 Literature-based Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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.</p>				
Programme module type:	Either BL4200 or PS4050 compulsory for Biology and Psychology. BL4200 or BL4201 or PN4299 compulsory for Neuroscience. Optional for Biology Joint or Major/Minor Degree programmes.			
Anti-requisite(s):	BL4201, PS4299, PN4299			
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 = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100% (10% - Thesis outline and resource list 1,000 words 70% - Written thesis 15,000 words 20% - Viva (20 minutes))			
Module Co-ordinator:	Prof P Willmer			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology			

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BL4201 Experimental Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	BL4200 or BL4201 or PN4299 compulsory for Neuroscience. Optional for all Biology Joint or Major/Minor Degree programmes. May be taken for Biomolecular Science (conditions apply)			
Anti-requisite(s):	BL4200, BL4299, PN4299			
Learning and teaching methods and delivery:	Weekly contact: 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 whole year.			
	Scheduled learning: 33 hours		Guided independent study: 567 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 P Willmer			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology			

BL4210 Practical Skills for Molecular Biology and Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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: 1-hour Written Examination = 30%, Coursework = 70%			
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
Academic year:	2013/4			
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 every week.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Dr P Coote			

BL4212 How Enzymes Work				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr R R Ramsay			
Lecturer(s)/Tutor(s):	Dr R R Ramsay, Dr J Ingledeu, Prof M White			

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BL4213 Molecular Virology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof R Randall			
Lecturer(s)/Tutor(s):	Prof R Randall, Dr Ryan, Dr Jackson, Dr Adamson			

BL4215 Bacterial Virulence Factors				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</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):	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 Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular 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 = 40%, Practical Examinations = 40%, Coursework = 20%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Prof G Taylor			
Lecturer(s)/Tutor(s):	Prof G Taylor			

BL4220 Geomicrobiology - from Gold Mines to Global Warming, how Microbes influence our Planet				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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:	Compulsory for Biology and Geology. Optional for Biochemistry, Cell Biology, Ecology and Conservation, Molecular Biology, and all 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			

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BL4222 Metabolic and Clinical Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 3-hour Written Examination = 40%, Coursework = 60%			
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:	1 & 2 (taught twice)
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 Examinations = 25%, Practical Examinations = 20%, Coursework = 55%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Dr G Prescott, Dr J Sleeman, Dr J Tilsner			

BL4232 Neural Mechanisms of Predatory and Avoidance Behaviours				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr W J Heitler			
Lecturer(s)/Tutor(s):	Dr W Heitler, Prof K Sillar			

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BL4248 Human Physiology of Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p> <p>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.</p>				
Programme module type:	Optional module 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: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr C Peddie			

BL4249 Scientific Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 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, Dr R Spence			

BL4251 Tropical Marine Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 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 = 100%			
Module Co-ordinator:	Dr C H Smith			
Lecturer(s)/Tutor(s):	Dr C H Smith, Dr R Spence			

BL4254 Fisheries Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology and all 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			

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BL4255 Marine and Environmental Biotechnology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Biochemistry, Ecology and Conservation, Marine Biology, Molecular Biology and all 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 Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: Written Examination = 40% (open book essay), Practical Examinations = 30%, Coursework = 30%			
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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Zoology and all 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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
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 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: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr P Miller			
Lecturer(s)/Tutor(s):	Dr P Miller			

BL4259 Marine Mammals and Man				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 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, Dr A Hall, Dr Gordon			

Biology - Honours Level - 2013/14 - August 2013

BL4260 Biological Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all 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: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr P Miller			
Lecturer(s)/Tutor(s):	Dr P Miller			

BL4262 Physical Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 Ecology and Conservation, Marine Biology and all 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 Examinations = 60%, Practical Examinations = 40%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Zoology and all 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 Examinations = 40%, Practical Examinations = 10%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr L Rendell			
Lecturer(s)/Tutor(s):	Dr L Rendell			

BL4266 Conservation Research Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology, and all 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			

Biology - Honours Level - 2013/14 - August 2013

BL4268 Conservation and Management of Biodiversity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Cell Biology, Ecology and Conservation and all 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Biochemistry, Cell Biology, Evolutionary Biology, Marine Biology, Molecular Biology, Zoology and all 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr D Barker			
Lecturer(s)/Tutor(s):	Dr D Ferrier, Prof Ritchie, Dr D Barker			

Biology - Honours Level - 2013/14 - August 2013

BL4274 Evolutionary Developmental Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Cell Biology, Evolutionary Biology, Marine Biology, Zoology and all 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Cell Biology, Evolutionary Biology, Zoology and all 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</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 = 50%, Practical Examinations = 35%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Behavioural Biology , Evolutionary Biology, Zoology and all 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: 1.5-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Prof K N Laland			
Lecturer(s)/Tutor(s):	Prof K N Laland, Dr K Cross			

Biology - Honours Level - 2013/14 - August 2013

BL4281 Animal Communication and Cognition				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 Examinations = 50%, Practical Examinations = 30%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50% (talk = 30% + handout = 20%)			
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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology, Zoology and all 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: 2-hour Written Examination = 50% , Coursework = 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 = 100%			
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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Ecology and Conservation, Behavioural Biology, Zoology and all 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: 2-hour Written Examination = 25%, Coursework = 75%			
Module Co-ordinator:	Dr V A Smith			
Lecturer(s)/Tutor(s):	Dr V A Smith			

Biology - Honours Level - 2013/14 - August 2013

BL4286 Advanced Topics in Ecology and Evolution			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2013/4		
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 Wilkinsons'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, 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 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: 2-hour Written Examination = 50%, Coursework = 50%		
Module Co-ordinator:	Dr D Shuker		
Lecturer(s)/Tutor(s):	Dr D Shuker, Prof M Ritchie		

BL4301 Polar Ecology: A field course in Antarctica			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2013/4		
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 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		

Biology - Honours Level - 2013/14 - August 2013

BL4601 Research Project Development and Methodology				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to student on the MBiochem programme.			
Planned timetable:	External Placement			
<p>This distance learning module will look in detail at the processes involved in creating a scientific research project. The aim of the module is for the students to develop independent thought in experimental design. While on placement, a series of online assessments will test the students' ability to critically analyse research literature, identify core and specialised techniques in biochemistry, design experiments for specific research questions, quantitatively and statistically analyse data and publish research in the appropriate manner. The students should ultimately gain valuable skills necessary for successful independent research careers.</p>				
Programme module type:	Compulsory for the MBiochem			
Pre-requisite(s):	BL1101, CH1401* BL1102, CH1601* *Chemistry requirement may be waived for students admitted before 2014/15 at the discretion of the Director of Teaching or Degree Programme Controller BL2101, BL2104 BL3301, BL3302, BL3320, BL3322, BL3310.			
Learning and teaching methods and delivery:	Weekly contact: 1 tutorial each week for 5 weeks.			
	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 G Prescott			

BL4602 External Research Placement				
SCOTCAT Credits:	100	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Only available to students on the MBiochem programme.			
Planned timetable:	External placement			
<p>The module constitutes an independent 7-12 month external research placement hosted by an independent institute/company. The project will be fully supervised at the host institute/company and student performance will be assessed jointly by the immediate supervisor and a member of staff in the School of Biology. During the module students will have the opportunity to practice and learn a range of scientific and generic skills, including an element of independent working, in a working environment outside St Andrews. Ultimately, the module will allow students to gain substantial research experience and work experience thus enhancing their future employability.</p>				
Programme module type:	Compulsory for MBiochem			
Pre-requisite(s):	BL1101, CH1401* BL1102, CH1601* *Chemistry requirement may be waived for students admitted before 2014/15 at the discretion of the Director of Teaching or Degree Programme Controller BL2101, BL2104 BL3301, BL3302, BL3320, BL3322, BL3310 and BL3311.			
Learning and teaching methods and delivery:	Weekly contact: External Placement			
	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 P Coote			

School of Chemistry

Chemistry (CH) Modules

CH3431 Chemistry Workshop				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 5 x 1-hour Practical Examinations = 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, Prof P Lightfoot, Prof W Zhou, Prof P A Wright, Prof D Philp, Dr C H Botting			

CH3441 Mini Chemistry Project				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 am - 1.00 pm Mon - Fri for 4 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: 4 hours per day 5 days a week			
	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: 30-minute Practical Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr R M J Goss, Dr I A Smellie, Prof J H Naismith, Prof J T S Irvine, Dr P Kilian, Prof M Buehl, Prof S P Nolan, Prof M Buck, Dr J B O Mitchell, Prof W Zhou, Prof P G Bruce			

Chemistry – Honours Level 2013/14 – August 2013

CH3512 Organometallic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof S P Nolan, Prof P C J Kamer			

CH3513 Advanced Solid State Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour 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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module aims to develop the student's understanding of the mechanisms that lie behind the reactions of inorganic compounds. The material will include studies of the different types of reactions that occur at metal centres and how they operate in complex systems such as metal-containing drugs and homogeneous catalysis. A second 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: 2-hour 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
Academic year:	2013/4			
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, Prof J D Woollins, Dr J A Crayston			

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CH3612 Synthetic Methodology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr N J Westwood, Dr M L Clarke			

CH3613 Carbohydrate and Nucleic Acid Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr G J Florence, Dr T M Gloster			

CH3615 Mechanism in Organic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D Philp, Prof A D Smith			

CH3621 Organic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm 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 or 4-hour practical classes over 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):	Dr M L Clarke, Prof D O'Hagan, Dr I A Smellie			

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CH3622 Organic Chemistry Laboratory (Materials)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm Mon to Fri.			
Practical experiments involving synthesis, characterisation and measurements in organic chemistry with a particular emphasis on organic materials. Students will perform a selection of the experiments undertaken by CH3621 students in addition to 3-4 special materials experiments.				
Programme module type:	Compulsory for Materials Chemistry, Materials Chemistry and External Placement			
Anti-requisite(s):	CH3621			
Learning and teaching methods and delivery:	Weekly contact: Daily 3- or 4-hour practical classes over 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):	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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module builds on 'Quantum Theory of Atoms, Molecules and Solids. Part I' given in CH2701. 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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P G Bruce, Dr G Haehner			

CH3715 Introduction to Analysis of Materials				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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: 2-hour 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
Academic year:	2013/4			
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: 2-hour 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
Academic year:	2013/4			
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: 2-hour 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
Academic year:	2013/4			
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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CH4441 External Placement				
SCOTCAT Credits:	90	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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.			
	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: Coursework = 100%			
Module Co-ordinator:	Dr R A Aitken			

CH4442 Chemistry Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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: 1-hour Practical Examination = 20%, Coursework = 80%			
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)
Academic year:	2013/4			
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 - 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: 1-hour Practical Examination = 20%, Coursework = 80%			
Module Co-ordinator:	Dr R A Aitken			

CH4445 Chemistry Research Project for Non-graduating Students				
SCOTCAT Credits:	90	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: 2-hour Practical Examination = 20%, Coursework = 80%			
Module Co-ordinator:	Dr R A Aitken			

CH4446 Chemistry Research Project for Non-graduating Students				
SCOTCAT Credits:	120	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: 2-hour Practical Examination = 20%, Coursework = 80%			
Module Co-ordinator:	Dr R A Aitken			

CH4447 Level 4000 Project for Chemistry / Pharmacology				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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: 1-hour Practical Examination = 20%, Coursework = 80%			
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
Academic year:	2013/4			
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: 30-minute Practical Examination = 20%, Coursework = 80%			
Module Co-ordinator:	Dr R A Aitken			

CH4451 Chemistry Distance Learning				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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			
	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
Academic year:	2013/4			
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			
	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
Academic year:	2013/4			
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 2000 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 Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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 Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with French M.Chem., Materials Chemistry Optional for Chemistry and Geology, Chemistry and Mathematics, Chemistry with French B.Sc., Chemistry with Mathematics			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof S P Nolan, Dr B E Bode, Dr J A Crayston			

CH4515 Advanced Main Group Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 Materials Chemistry, Chemistry with Medicinal Chemistry M.Chem. Optional for Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Anti-requisite(s):	CH5513			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks and 2 tutorials in total.			
	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:	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
Academic year:	2013/4			
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. Optional for Biomolecular Science, Chemical Sciences, Chemistry and Mathematics, Chemistry M.Chem., 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 plus a half-day site visit.			
	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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D O'Hagan and visiting industrial lecturers			

CH4614 Heterocyclic and Pericyclic Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemical Sciences, 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			
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 plus a half-day site visit.			
	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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr E R Kay			

Chemistry – Honours Level 2013/14 – August 2013

CH4615 Fragrance, Food and Colour Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module considers three areas where applications of organic chemistry have been able to benefit society and given rise to important industries. The fragrance, perfumery and food flavouring industry will be covered from the early extraction of essential oils to the modern marketplace with an overview of the key structural features required for perfumes and flavours and some major manufacturing processes. The chemical constituents of food will be considered with an emphasis on health effects and the molecular mechanism of antioxidants, vitamins and other food constituents. The chemistry of organic dyes and pigments will be discussed including the historical development of colour compounds and how these affected society and art. Coloured compounds in nature will also be discussed.</p>				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics			
Anti-requisite(s):	CH4613			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr R J M Goss, Dr T K Smith			

CH4713 Interactions of Light with Matter				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Materials Chemistry., Chemistry and Physics. Optional for Chemical Sciences, Chemistry., 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: 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:	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
Academic year:	2013/4			
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 Chemical Sciences, Chemistry, Chemistry with French, Materials Chemistry, Chemistry with Medicinal Chemistry, Chemistry and Physics. Optional for Chemistry and Geology, Chemistry and Mathematics, 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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr F M Gray			

CH4715 Functional Materials and Electrons in Solids				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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., Chemistry and Physics. Optional for Chemical Sciences, Chemistry., Chemistry and Mathematics, Chemistry and Geology, Chemistry with French, Chemistry with Mathematics			
Anti-requisite(s):	CH5712			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr F D Morrison, Prof M Buck			

Chemistry – Honours Level 2013/14 – August 2013

CH5441 Research Project				
SCOTCAT Credits:	50	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
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 M.Chem.			
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: 1-hour Practical Examination = 20%, Coursework = 80%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	all staff			

CH5461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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 2000 standard.				
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 Postgraduate - Compulsory for Chemical Science M.Sc. (unless CH4461 has been previously passed)			
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 Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	all staff			

CH5511 Homogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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., 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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P C J Kamer, Prof R P Tooze			

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CH5516 Advanced Ligand Design				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof P C J Kamer, Dr C S J Cazin			

CH5517 Advanced Molecular Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	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
Academic year:	2013/4			
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 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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	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
Academic year:	2013/4			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr M L Clarke, Prof A D Smith			

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CH5612 Natural Products, Biosynthesis and Enzyme Co-factors				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D O'Hagan, Dr T K Smith, Dr G J Florence			

CH5613 Reactive Intermediates				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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: 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:	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
Academic year:	2013/4			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof J H Naismith, Dr N J Westwood			

CH5616 Molecular Recognition				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof D Philp, Dr E R Kay			

Chemistry – Honours Level 2013/14 – August 2013

CH5711 Advanced Spectroscopic Methods				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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., 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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof M Buck, Dr G Haehner			

CH5713 Surface Science and Heterogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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 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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	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
Academic year:	2013/4			
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, Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof M Buehl, Dr J B O Mitchell			

CH5715 Energy Conversion and Storage				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Chemistry			
Anti-requisite(s):	CH4712			
Learning and teaching methods and delivery:	Weekly contact: 2-3 weekly lectures over 5-7 weeks.			
	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:	Dr R A Aitken			

Chemistry – Honours Level 2013/14 – August 2013

CH5716 Processing of Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Materials Chemistry M.Chem., Materials Chemistry with External Placement			
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: 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:	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
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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: 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:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Prof W Zhou, Prof M Buck			

CH5821 Research Skills in Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module involves gaining familiarity and expertise in specialised research techniques in the Chemical Sciences appropriate to the prospective Research Project. These will vary considerably according to the chosen area but may include running a computer modelling calculation, operation of spectrometers, diffractometers and similar instruments, searching for data in the chemical literature, manipulation of air-sensitive materials, conducting a high-pressure reaction etc.				
Programme module type:	Compulsory for Chemical Science M.Sc.			
Learning and teaching methods and delivery:	Weekly contact: 7 hours of practical work.			
	Scheduled learning: 84 hours		Guided independent study: 16 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (5 laboratory reports) = 100%			
Module Co-ordinator:	Dr P Kilian			

CH5831 Literature Review for M.Sc.				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module which forms part of the M.Sc. programme in Chemical Science involves an in-depth survey of the published literature within a specified research area which is related to the prospective research project.				
Programme module type:	Compulsory for Chemical Science M.Sc.			
Learning and teaching methods and delivery:	Weekly contact: 5 x 1-hour consultation and feedback sessions with supervisor over the semester.			
	Scheduled learning: 5 hours		Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (~4,000-word Literature Review)= 100%			
Module Co-ordinator:	Dr P Kilian			

Chemistry – Honours Level 2013/14 – August 2013

CH5832 Contemporary Research Awareness				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module which forms part of the M.Sc. programme in Chemical Science is based on Research Colloquia and Seminars delivered by external speakers and covering the whole range of areas within current chemical science research. Assessment is by two essays to be based on selected lecture(s) and additional reading, one to be submitted at the end of each semester.				
Programme module type:	Compulsory for Chemical Science M.Sc.			
Learning and teaching methods and delivery:	Weekly contact: 20 hours over the whole year.			
	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 (2 x 3,000-word essays) = 100%			
Module Co-ordinator:	Dr P Kilian			

School of Classics

Ancient History (AH) Modules

AN3020 Principles and Techniques in Archaeology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2 hours of 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R J Sweetman			
Lecturer(s)/Tutor(s):	Dr R J Sweetman, Dr J Coulston, Dr M Bishop			

AN4110 The Culture of Roman Imperialism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 - 11.00 am Fri			
What imperial powers think they are doing and what they claim to do are issues that deserve just as much scrutiny as their conduct in practice. This module explores how the Roman elite conceived their imperial project - how they explained and justified Rome's conquest of the Mediterranean world and how they thought Roman power should be used. It also asks how literary and visual culture were complicit in legitimising and promoting the imperial project. Key topics include cosmocracy, peace and pacification, the civilising mission, ethnography and the idea of the barbarian. Discussion will proceed through close analysis of a wide range of texts and images.				
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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Dr M Lavan			

Classics - Honours Level 2013/14 - August 2013

AN4117 Art of the Roman Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 - 11.00 am Thu			
This module will examine the art of Italy and the provinces of the Roman Empire between the last century BC and the fourth century AD. It will include consideration of monumental art and also private art in a variety of media such as sculpture, wall paintings and mosaics. The module will look at issues such as the employment of art by the state, at the domestic contexts of art, and the artistic treatment of themes such as myth, historical events, death and sexuality. Special attention will be given to particularly rich case studies including Pompeii, Dura-Europos and Roman Britain.				
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: 2 hours of 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Dr J Coulston			

AN4136 Alexander the Great				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 - 4.00 pm Tue.			
Alexander the Great's life and career have exercised an enormous influence - both on the subsequent history of the Hellenistic and Roman worlds, and on the later imagination of artists and writers. This module will ask how much we can really know of Alexander's aims and career, through detailed examination both of the sources for his life and their literary and historiographical models. Topics will include: the origins of ruler cult, Alexander's vision of the world, his relationship with his army, his alleged attempt to fuse east and west and other 'last plans'. The module will look, finally, at some of the modern representations of Alexander - in scholarship, film and literature.				
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Dr S Lewis			

AN4145 The Archaeology of Roman Britain				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 - 4.00 pm Thu.			
This module will explore the Roman period in Britain through the archaeological record of towns, landscapes, military installations, cults, artworks and artifacts, combined with literary texts and sub-literary sources. Emphasis will be placed on Britain's relative place within a wider Mediterranean empire, and within an Iron Age northern European world. Topics studied will embrace the period from first Roman contacts during the 1st century BCE through the weakening of central government in the 5th Century CE. The geographical scope includes the whole of these islands, including Ireland.				
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: 2 hours of 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Dr J Coulston			

AN4149 The Archaeology of Minoan Crete				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 - 11.00 am Wed.			
This module examines the archaeology of Minoan Crete from its beginnings to the crisis at the end of the Late Minoan I B period and rise of the Mycenaeans (around 3000-1000 BCE). The approach to the study of this prehistoric culture will be through a range of resources, primarily their artefacts and architecture such as frescos, pottery and religious paraphernalia as well as palatial structures, villas and tombs. Different methodologies will be called upon to reveal aspects of Minoan society such as the organisation of the Minoan states and palaces, religion and art, trade and administration and relations between Crete and neighbouring regions such as Mainland Greece and the Cyclades. Key sites include Knossos, Phaestos, Mallia, Gournia, Myrtos, Armeni, Mycenae and Thera.				
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: 2 hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 0%, Coursework = 65%			
	As used by St Andrews: 2-hour Written Examination = 35%, Coursework = 65% (1 essay, 40%, 1 presentation, 15%, research diary, 10%)			
Module Co-ordinator:	Dr R Sweetman			
Lecturer(s)/Tutor(s):	Dr R Sweetman			

Classics - Honours Level 2013/14 - August 2013

AN4424 Classical Temple to Christian Basilica: Development of Religious Architecture in Greece				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 am - 11.00 am Wed			
This module takes a broad approach to the study of Greece from the Classical to Early Christian periods. Within a historical framework it aims to illustrate how religious architecture (temples, sanctuaries, basilicas and monasteries) can be used to study key changes in Greek society and politics. The module will examine religious architecture and interior decoration and then apply an architectural study of its function to discover more about the nature of the liturgy and the people involved in it. Using historical sources in combination with the study of particular sites such as Athens, Delphi, Corinth and Sparta the following themes will be a focus: architecture as propaganda, effects of Hellenic expansion, Romanisation and Christianisation.				
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 = 10%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50% (1 essay, 25%, 1 presentation, 10%, research diary and written version of presentation, 15%)			
Module Co-ordinator:	Dr R Sweetman			
Lecturer(s)/Tutor(s):	Dr R Sweetman			

Classics (CL) Modules

CL4419 Magic in Greco-Roman Literature and Life				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 - 11.00 am Fri.			
This module examines magic and related phenomena in the Greco-Roman world. Attention will be paid both to the fascination with magic in literature and to magical beliefs and practices in real life, not just practices to which the ancient writers themselves apply the word 'magic' or similar terms, but also features of conventional religion, public and private, that some modern scholars have regarded as magical. This will require examination of the problems of defining magic, sorcery, witchcraft, and the like, and of distinguishing them from religion. Students will study - in English translation - both literary texts (from Homer to Apuleius and beyond) and documentary and archaeological evidence (including magical papyri and curse tablets).				
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):	CL4416			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Anderson			
Lecturer(s)/Tutor(s):	Dr R Anderson			

CL4435 Greek Theatre				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Wed.			
The extensive and elaborate funding and organization that lay behind Athens' theatrical festivals can tell us a lot about Athenian society. Material and textual evidence for the theatres' layout, stage conventions and framing ceremonies are crucial for the interpretation of Greek drama. This module will combine study of the Greek theatre's physical, ideological, religious and economic status with close reading of selected plays to address fundamental questions: why were tragedy, comedy, satyr plays and dithyrambs staged under the auspices of Dionysus? Was Greek theatre specifically 'democratic' or more generally 'civic' in terms of its character, organization and sociology? How and why did Greek drama change and spread beyond Athens' borders? Did these dramatic genres speak to Athenians' own lives or take them to different realms through its myths and fantasies?				
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):	CL4416			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

CL4437 Modern Classics: Classics in the Nineteenth and Twentieth Centuries				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm - 4.00 pm Fri.			
"But what is Classics for?" This is a question that most students of the Greek and Roman worlds have surely had to face at some point in their careers. This module sets out to answer that question in terms of what purposes the Greeks and Romans have been made to serve in the modern world, from approximately the mid-nineteenth century to the present day. Topics for consideration include the role of Classical education in constructing social status; why it used to be unacceptable to mention anthropology in classical studies; what museums do to their visitors apart from showing them artefacts in glass cases; why and in what form Greek tragedy keeps coming back to the stage; the ideological baggage of blockbuster films set in Greece and Rome; and what to think about Achilles after two World Wars. If this module doesn't answer your questions about the point of studying the Greeks and Romans, it should at least give you some new ways to think about it.				
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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr R T Anderson			
Lecturer(s)/Tutor(s):	Dr R T Anderson			

Classics - Honours Level 2013/14 - August 2013

CL4438 Animals in Greco-Roman Antiquity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 - 4.00 pm Tue.			
<p>From horses and dogs to crocodiles and rhinoceroses, and from oxen and ferrets to unicorns and giant ants, this module examines human relationships with animals in ancient Greece and Rome. Animals have played essential roles in human societies for all of recorded history, and today form a living link with the classical past. Using literary, artistic and archaeological evidence the module will trace the significance of animals in classical life, as sources of food, labour, companionship and entertainment, and as objects of ritual, scientific experiment and conspicuous consumption. Students will examine the conceptualisation of the animal (as 'wild', as 'pet', or as 'exotic', for instance), and will consider the philosophical debates surrounding animals in antiquity and their symbolic meanings in ancient societies.</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			
Anti-requisite(s):	CL4416			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Dr S Lewis			

CL4444 Pleasure, Goodness and Happiness: Hellenistic Ethics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	4.00 - 5.00 pm Tue and Thu.			
<p>This module will explore the ethical thought of the Hellenistic period, a key phase in the development of Graeco-Roman culture. We shall examine some of the most sophisticated and influential moral theories of antiquity, principally those of the Epicureans, Stoics and sceptics. The core text will be Cicero's On Moral Ends. The module will include the following topics: the nature and value of pleasure; friendship and society; the fear of death; virtue and vice; happiness; human development; moral psychology; life without beliefs. All primary texts will be available in English translation.</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: 2 x 1-hour 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

CL4457 Roman Slavery				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 - 4.00 pm Fri			
The institution of slavery lies at the heart of Roman society and culture. On one estimate, slaves made up 30-40% of the population of Roman Italy, with the richest households boasting hundreds of slaves. This course offers a holistic perspective on Roman slavery. We will cover the demography, economics and law of slavery, explore the mechanisms of control that enabled the wealthy to maintain the subjection of so many slaves, examine philosophical debates about the ethics of mastery, and trace the ramifications of the everyday experience of living with slaves throughout Roman culture and literature.				
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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Dr M Lavan			

CL4990 Special Topic in Classical Studies				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Available only to students also taking ID4002.			
Planned timetable:	To be arranged.			
This module is designed to complement ID4002 'Communication and Teaching in Arts & Humanities', a placement module in which students gain substantial experience of a working educational environment, and of communicating aspects of the Greek and Roman world to school pupils. This module provides the opportunity for students to carry out an extended piece of work on a topic related to their work in ID4002. For example, the topic could have a pedagogical focus, exploring the place of Classics in education, or it could be a more detailed exploration of a subject related to the student's special topic in ID4002.				
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):	CL4999, GK4998, GK4999, LT4999.			
Co-requisite(s):	ID4002			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (in total) of supervisory meetings.			
	Scheduled learning: 2 hours		Guided independent study: 148 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 T Anderson			
Lecturer(s)/Tutor(s):	Dr R T Anderson			

Classics - Honours Level 2013/14 - August 2013

CL4999 Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
Availability restrictions:	Available only to students in the 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 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).</p>				
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, CL4998, CL4997, CL4996, LT4999, GK4999, GK4998, CL4990			
Learning and teaching methods and delivery:	Weekly contact: 3 hours (in total) 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
Academic year:	2013/4			
Planned timetable:	10.00 am - 11.00 am 4 days a week (Tue - Fri).			
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.				
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 Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (essay, 20%, 4 class tests, 40%)			
Module Co-ordinator:	Dr J König			
Lecturer(s)/Tutor(s):	Team taught			

GK3022 Greek for Honours Classics 2: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am - 11.00 am 3 days a week (Tue - Fri).			
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.				
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 Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (essay, 20%; 4 class tests, 40%)			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Team taught			

Classics - Honours Level 2013/14 - August 2013

GK4100 Greek Prose Composition				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12 noon – 1.00 pm Tues and 9.00– 10.00 am Fri.			
<p>This module will deal with the different ways in which students may make use of their knowledge of Greek in order to produce both translations from English texts into grammatically correct Greek and also free compositions directly in Greek. This will involve a more active process of language learning than is required for translation from Greek into English, though it will also have benefits for the reading of original texts. The content of the module will deal with all syntactical aspects of the Greek language that need special study for effective translation into Greek: particles, participles, the treatment of abstract nouns, equivalence between English and Greek idioms, etc.</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: 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (2 class tests)			
Module Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch			

GK4102 Greek Tragedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 - 3.00 pm Tues and Thu.			
<p>This module increases the student's familiarity with Greek tragedy. Plays of Aeschylus, Sophocles and Euripides are prescribed for detailed study, and students learn to address questions of content, context and staging in prepared texts, to translate passages from unprepared texts, and to address wider dramatic and generic issues.</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Anti-requisite(s):	CL4402, CL4416			
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 = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Unseen test = 15%, Coursework = 45%			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

GK4109 Greek Literature in the Roman Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am to 1.00 pm Tue			
The first to third centuries CE were one of the most fertile periods of Greek literary production (and have been an exciting growth area of recent scholarship). This module samples a range of genres, paying particular attention to detailed appreciation of specific works: the speeches and dialogues of the controversial and colourful orator/philosopher Dio Chrysostom; the irreverent satirical and comical writing of Lucian; and the works of Philostratus, who offers us such a vivid portrait of his own contemporary culture through his biographical writing. It also addresses a range of broader questions: how far are these texts influenced by their social and political context, especially by the continuing Roman rule over the Greek east? What relation do they have with classical literary traditions which they draw on and transform in such original ways? The module will combine thematic discussion with detailed work on set texts and related unseen passages.				
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 = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Unseen test = 15%, Coursework = 45%			
Module Co-ordinator:	Dr J König			
Lecturer(s)/Tutor(s):	Dr J König			

GK4117 Lies, History and Ideology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Thu			
We shall examine stories about the Athenian past, particularly the myth of 'autochthony', according to which the Athenians' native land gave birth to their ancestors. We shall consider the role played by these stories in shaping Athenian civic identity; our focus will be on the sophisticated exploration of and response to these stories in Athenian literature, rhetoric and philosophy. An important theme discussed by these texts is the political expediency of telling falsehoods about the past. The set texts will be Euripides' Ion, selected parts of Isocrates' political writing, Plato's Menexenus and selected parts of Plato's Republic.				
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 x 1-hour seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Unseen test = 15%, Coursework = 45%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

Classics - Honours Level 2013/14 - August 2013

GK4120 Thucydides - 'Histories'				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 12.00 noon Tue and 2.00 - 3.00 pm Thu			
<p>Thucydides' 'History of the Peloponnesian War' is one of the most brilliant, exciting, and challenging works of world literature. In this module we want to explore Thucydides' fascinating narrative from a literary, stylistic, and historical perspective.</p> <p>The classes will combine close reading and intensive analysis of key passages from Thucydides' work (such as Perikles' funeral oration and the account of the great plague in Athens; the Mytilene debate; the Melian Dialogue; excerpts from the Sicilian expedition, etc.) with discussion of more general issues arising from Thucydides' work on the basis of select secondary reading. Topics we will look into will include key aspects of Thucydides' interpretation of the past (such as man's place in history; morals, power, and responsibility; historical truth); Thucydides' narrative method (the role of speeches; metaphors and historical interpretation, etc.); and some historical questions (for example, Thucydides' use of historical documents; his reliability as a "source").</p> <p>At the end of this module you will have gained in-depth insight into the work of one of the most eminent and influential historians of all times from a range of different perspectives. You will also have learned how to deal with Thucydides' highly original style, which often pushes language to its limits.</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: 2 x 1-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Unseen test = 15%, Coursework = 45%			
Module Co-ordinator:	Dr N Wiater			

GK4998 Dissertation in Greek (Long)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Either, or whole year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the final year of the Single Honours Greek programme.			
Planned timetable:	To be arranged.			
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).				
Programme module type:	Optional for Single Honours Greek Degrees			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, LT4999, GK4999, CL4990			
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:	1 or 2
Academic year:	2013/4			
Availability restrictions:	Available only to students in the 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, CL4990			
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			

Latin (LT) Modules

LT3017 Latin for Honours Classics 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 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%).				
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: 2-hour Written Examination = 40%, Coursework (1 essay, 30%; 1 literary criticism, 20%; 2 class tests, 10%) = 60%			
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
Academic year:	2013/4			
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	
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: 2-hour Written Examination = 40%; Coursework = 60% (1 essay, 30%; 1 literary criticism, 20%; 1 class test, 10%)			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Team taught			

LT4208 Late Latin				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 - 11.00 am Tue and Thu.			
This module aims to give an introduction to some of the most important Latin texts from the Late Roman Empire in the West. Selected literary works, of a variety of genres, will be read in Latin, along with a wider corpus read in translation.				
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: 2 hour seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 literary criticisms, 30%, 1 class-test, 15%)			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees			

LT4210 Latin Didactic Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Wed.			
This module examines the development of one of the major genres of Classical Latin poetry during the late Republic and early Empire, with due consideration of the Hellenistic and archaic Greek background. Three books will be studied with particular attention to their literary form and background, to the didactic poet's message, and to his self-presentation as an authority and teacher.				
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: 2 hours per week.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 literary criticisms, 30%, 1 class-test, 15%)			
Module Co-ordinator:	Dr E Gee			
Lecturer(s)/Tutor(s):	Dr E Gee			

Classics - Honours Level 2013/14 - August 2013

LT4211 Latin Letters				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon – 1.00 pm Thu and 11.00 am - 12.00 noon Fri.			
This module studies the genre of epistolography through the selected letters of the three Latin writers Cicero, Seneca and Pliny. The aims, methods, style and subject-matter of each writer will be studied and compared, as will their different personal, political and cultural backgrounds. Letters from other authors and periods will be used for comparative purposes.				
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: 2 meetings.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 literary criticisms, 30%, 1 class-test, 15%)			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees			

LT4215 Senecan Tragedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 – 11.00am Tue			
This module studies the genre of epistolography through the selected letters of the three Latin writers Cicero, Seneca and Pliny. The aims, methods, style and subject-matter of each writer will be studied and compared, as will their different personal, political and cultural backgrounds. Letters from other authors and periods will be used for comparative purposes.				
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: 2 meetings.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 commentaries, 30%, 1 class-test, 15%)			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Dr E Buckley			

LT4218 Women in Myth				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 - 11.00 am Thu			
<p>This module offers an introduction to mythology as well as to gender studies through a variety of Latin texts, both poetry and prose. It will expand the students' knowledge of Greek and Roman myths, and the understanding of their use in Latin literature and Roman culture. At the same time it will study the role and characterisation of mythical women in various genres, the evolution of their myths from Greece to Rome, and the ways in which they are employed for literary, political and religious purposes in the Late Republic and Early 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 meeting			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 15%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 1 commentary, 15%, 1 presentation, 15%, 1 class-test, 15%)			
Module Co-ordinator:	N Manioti			
Lecturer(s)/Tutor(s):	N Manioti			

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LT4999 Latin Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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, GK4999, GK4998, CL4990			
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

Computer Science (CS) Modules

CS3051 Software Engineering				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and practical experience 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 with BPS Recognition, Computer Science M.Sci. Optional for Computer Science and Psychology with BPS Recognition 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3052 Computational Complexity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 with BPS Recognition, Computer Science M.Sci. Optional for Computer Science and Psychology with BPS Recognition 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science – Honours Level 2013/14 – August 2013

CS3098 Minor Software Team Project				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Not available to General Degree Students			
Planned timetable:	To be arranged.			
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. This module has a similar structure to CS3099, but with reduced scope appropriate for Joint Honours students.				
Programme module type:	Compulsory for Computer Science Joint Honours Degrees with subjects other than Psychology with BPS Recognition. Optional for Computer Science and Psychology with BPS Recognition B.Sc.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3099	
Required for:	CS4098			
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			

CS3099 Software Team Project				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Not available to General Degree Students			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Computer Science M.Sci.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3098	
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: 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			

Computer Science – Honours Level 2013/14 – August 2013

CS3101 Databases				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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.Sci.			
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: 2-hour Written Examination = 60%, Coursework = 40%,			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3102 Data Communications and Networks				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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.Sci.			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science – Honours Level 2013/14 – August 2013

CS3104 Operating Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3105 Artificial Intelligence				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science – Honours Level 2013/14 – August 2013

CS3106 Human Computer Interaction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3301 Component Technology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS3302 Data Encoding				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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.Sc.			
Pre-requisite(s):	(CS2001 or CS2101), 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4052 Logic and Software Verification				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
Building on earlier coverage of elementary logic, this module motivates the need for formal methods and software verification approaches as model checking for guaranteeing the correctness of software systems. The module covers modelling, system property specification using temporal logics, and more applied approaches to software specification and verification through the use of model checkers. Model checkers such as SPIN and UPPAAL are used both in lectures and in practical work. Petri nets and program semantics are also explored. Software correctness is thus presented as a matter not of testing but of pre-execution verification through model checking.				
Programme module type:	Compulsory for Computer Science B.Sc., Internet Computer Science B.Sc., Joint Computer Science degrees with subjects other than Psychology with BPS Recognition, Computer Science M.Sc. Optional for Computer Science and Psychology with BPS Recognition B.Sc.			
Pre-requisite(s):	CS3052			
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: 2-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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.			
Pre-requisite(s):	CS3098	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
Academic year:	2013/4			
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.Sc.			
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			

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CS4102 Computer Graphics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4103 Distributed Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4201 Programming Language Design and Implementation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4202 Computer Architecture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS4203 Computer Security				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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.			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4204 Concurrency and Multi-Core Architectures				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Availability restrictions:				
Planned timetable:	To be arranged.			
This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging.				
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			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS4302 Multimedia				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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.Sc.			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4303 Video Games				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. 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. Games programming skills are developed 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.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 = 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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CS4402 Constraint Programming				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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.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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4499 Computer Science (Special Subject)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
Availability restrictions:				
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.Sci.			
Pre-requisite(s):	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			

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CS5010 Artificial Intelligence Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI reasoning, planning, doing, and learning. It shows how search is used to solve a variety of problems in AI. The fundamentals of symbolic AI, machine learning, neural networks, and robotics are shown, together with their relation to cognitive science. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown.				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Anti-requisite(s):	CS3105			
Required for:	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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5011 Artificial Intelligence Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	CS3105			
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:	masters-coord-cs@st-andrews.ac.uk			

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CS5012 Language and Computation				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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):	CS3052 or CS5010			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5021 Advanced Networks				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic.				
Programme module type:	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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

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CS5023 Mobile and Wireless Networks				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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):	CS3102 or 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5030 Software Engineering Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system.				
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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

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CS5031 Software Engineering Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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.Sc.			
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:	masters-coord-cs@st-andrews.ac.uk			

CS5032 Critical Systems Engineering				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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.Sc.			
Pre-requisite(s):	CS3051 or 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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

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CS5033 Software Architecture				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
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.Sc.			
Pre-requisite(s):	CS3051 or 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5040 Human Computer Interaction Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module provides a broad introduction to the study of interaction between humans and computational machines. Material includes: the history of interfaces and interaction; ubiquitous computing; human vision, perception, memory and hearing; paradigms of interaction; universal design and design rules; new HCI paradigms beyond the desktop; socio-organisational issues in HCI.</p>				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sc.			
Anti-requisite(s):	CS3106	Required for:	CS5042, CS5043	
Learning and teaching methods and delivery:	Weekly contact: Lectures, practical classes and tutorials.			
	Scheduled learning: 41 hours		Guided independent study: 109 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

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CS5041 Human Computer Interaction Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Availability restrictions:	The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students.			
Planned timetable:	To be arranged.			
This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments.				
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5042 User-Centred Interaction Design				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Availability restrictions:	The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students.			
Planned timetable:	To be arranged.			
This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming.				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sci.			
Pre-requisite(s):	(CS5040 or CS3106) and CS5041			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures, 3 practicals and 1 tutorial.			
	Scheduled learning: 77 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 90%, Presentation = 10%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

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CS5043 Evaluation Methods in Human Computer Interaction				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module provides an introduction to quantitative and qualitative methods for evaluating interactive systems and digital artefacts. It covers experimental design, hypothesis testing and field studies. Skills in applying evaluation methods are reinforced through practical assignments.				
Programme module type:	Optional for Computer Science B.Sc., Joint Computer Science degrees, Computer Science M.Sc.			
Pre-requisite(s):	(CS5040 or CS3106) and CS5041			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practical classes and tutorials.			
	Scheduled learning: 41 hours		Guided independent study: 109 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

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.Sc. Honours Computer Science			
Pre-requisite(s):	CS4099, Entry to M.Sc. Honours Computer Science			
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:	hons-coord-cs@st-andrews.ac.uk			
Lecturer(s)/Tutor(s):	TBA			

Interdisciplinary (ID) Modules

ID5059 Knowledge Discovery and Datamining			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2013/4		
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.		
<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:	<p>Optional for M.Sci. in Computer Science Optional for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems M.Sc. Programmes. Compulsory for Applied Statistics and Datamining Taught Postgraduate Programme. Optional for Statistics Taught Postgraduate Programme.</p>		
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: 2-hour Written Examination = 60%, Coursework = 40%		
Module Co-ordinator:	Dr C R Donovan and Dr T Kelsey		

School of Divinity

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:	M Westerholm			
Lecturer(s)/Tutor(s):	M Westerholm			

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 W Hyland			
Lecturer(s)/Tutor(s):	Dr W Hyland			

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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			
Co-requisite(s):	DI3705	Anti-requisite(s):	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 = 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			
Co-requisite(s):	DI3705	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:	Dr J Perry			
Lecturer(s)/Tutor(s):	Dr J Perry			

DI3705 Reading in Modern Theology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Planned timetable:	To be arranged. (Classes held in Weeks 7 - 11)			
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.				
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	Required for:		
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:	M Westerholm			
Lecturer(s)/Tutor(s):	M Westerholm			

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)			
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.				
Programme module type:	Compulsory for Biblical Studies, M.Theol., B.D., Hebrew, New Testament and Theological Studies			
Co-requisite(s):	DI3712	Required for:		
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 J Hafemann			
Lecturer(s)/Tutor(s):	S Lear			

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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 D Moffitt			
Lecturer(s)/Tutor(s):	Dr D Moffitt			

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 G Macaskill			
Lecturer(s)/Tutor(s):	Dr G Macaskill			

DI3715 Reading the Bible in Late Modernity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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):	DI2714	
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: 2-hour Written Examination = 50%, Coursework = 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			

DI4497 Honours Dissertation in Divinity (45)				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Availability restrictions:	Available only to students concurrently taking ID4002			
Planned timetable:	To be arranged.			
This module involves a full-year independent research project, developed under the supervision of a member of staff. The student is free to develop his/her project out of his/her own interests, providing it is academically defensible and falls within the academic areas covered by the School of Divinity. Students will work towards the completed dissertation in graded stages, preparing a research bibliography, a preliminary paper including literature review and methodology discussion before writing the dissertation itself. Students will also be required to deliver graded presentations on their dissertations. Seminars will run fortnightly to provide support to students, with some of these given over to linking the project and skills acquired thereby with the demands of employability.				
Programme module type:	Optional for Theological Studies, Biblical Studies, New Testament, M.Theol, B.D.			
Co-requisite(s):	ID4002	Anti-requisite(s):	DI4499, DI4498	
Learning and teaching methods and delivery:	Weekly contact: 6 hours with supervisor and 22 seminar hours over the year.			
	Scheduled learning: 28 hours		Guided independent study: 422 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 Macaskill			

DI4498 Honours Dissertation in Divinity (BD-30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 & 2 (taught twice)
Availability restrictions:	Only available to students in B.D. programme, who entered the programme prior to 2013-14.			
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 B.D. (for those entering Honours prior to 2014-15)			
Anti-requisite(s):	DI4501, DI4497, DI4499			
Learning and teaching methods and delivery:	Weekly contact: 6 hours of individual supervision and 11 seminar hours over the semester			
	Scheduled learning: 17 hours		Guided independent study: 283 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 Macaskill			

DI4499 Honours Dissertation in Divinity (60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged.			
This module involves a full-year independent research project, developed under the supervision of a member of staff. The student is free to develop his/her project out of his/her own interests, providing it is academically defensible and falls within the academic areas covered by the School of Divinity. Students will work towards the completed dissertation in graded stages, preparing a research bibliography, a preliminary paper including literature review and methodology discussion before writing the dissertation itself. Students will also be required to deliver graded presentations on their dissertations. Seminars will run fortnightly to provide support to students, with some of these given over to linking the project and skills acquired thereby with the demands of employability. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for M.Theol., Single Honours Biblical Studies, Single Honours Theological Studies Optional for Joint Honours Biblical Studies, Hebrew, New Testament, Theological Studies			
Anti-requisite(s):	DI4497, DI4498			
Learning and teaching methods and delivery:	Weekly contact: 6 hours individual supervision and 22 seminar hours over the year			
	Scheduled learning: 28 hours		Guided independent study: 572 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 Macaskill			

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DI4511 Church History Special Topic: Mediaeval Monastic Spirituality				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module focuses on the major forms of monastic spirituality in Latin Christianity from the sixth through the fifteenth century. We will consider the teachings of the major monastic Rules (Benedictine, Augustinian, Celtic), and how they shaped early medieval religious life. Important expressions of monastic spirituality in the high middle ages, including monks, canons regular, hermits, and the mendicant movements will then be addressed, as well as the devotio moderna of the later middle ages. Ongoing themes will include the relationship between action and contemplation, and the place of Scripture in monastic forms of prayer. Readings will include, among others, texts by Bede, Bernard of Clairvaux, Aelred of Rievaulx, Hildegard of Bingen, Guigo II the Carthusian and Thomas a Kempis.</p>				
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 W Hyland			
Lecturer(s)/Tutor(s):	Dr W Hyland			

DI4515 Victorian Hymn				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module examines the phenomenon of the Victorian hymn from the historical, theological, liturgical, literary, social and musical viewpoint. It aims to give an insight into the writers of hymns in the nineteenth century, the emergence and development of the congregational hymn as a major feature of church worship, the themes and theology of Victorian hymnody and the musical dimension.</p>				
Programme module type:	Optional for MA Theological Studies, MTheol, BD.			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr I Bradley			
Lecturer(s)/Tutor(s):	Dr I Bradley			

DI4550 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only 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			

DI4551 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Availability restrictions:	Available only 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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DI4608 Gospel of Matthew (English Texts)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional module for M.Theol., M.A. Biblical Studies, M.A. New Testament, B.D.			
Pre-requisite(s):	DI1006, DI3712	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: Take Home Examination = 50%, Coursework = 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.			
<p>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.</p>				
Programme module type:	Optional for M.Theol., M.A. Biblical Studies, M.A. New Testament, B.D.			
Pre-requisite(s):	DI1005, DI1006, DI3712	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: Take Home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr E Shively			
Lecturer(s)/Tutor(s):	Dr E Shively			

DI4610 Christology and Pneumatology in the New Testament				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module will examine the intertwined theologies of the person of Christ and of the person of the Spirit, as they develop in the New Testament. After a preliminary survey of the approaches taken to these theologies in Biblical Studies, particularly in recent years, the module will work through the key texts of the New Testament, examining what is said about Christ and the Spirit and asking how these texts relate to one another and to the later codifications of Christology and Pneumatology by the great church councils and by historical Christian theology.				
Programme module type:	Optional for M.Theol., M.A. Biblical Studies, M.A. New Testament, B.D.			
Pre-requisite(s):	DI3712			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr G Macaskill			

DI4705 Biblical Aramaic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
This module introduces students to a Semitic language related to Hebrew, in which parts of the Hebrew Bible are written. It consists of an introduction to basic elements of the language and study of selected texts from the biblical books of Daniel (court tales describing life in the Babylonian capital during the exile) and Ezra (diplomatic texts from the post-exilic period dealing with the return of the exiles to Palestine and the rebuilding of the temple in Jerusalem).				
Programme module type:	Optional for Biblical Studies, Hebrew, M.Theol., B.D.			
Pre-requisite(s):	DI2002			
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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof J Davila			

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DI4711 Old Testament Special Topic: <u>The Pentateuch (Hebrew Version)</u>				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p> <p>For 2013/14 - The aim of this module is to explore the narrative and legal literature of Ancient Israel through a study of the Pentateuch in Hebrew. The Pentateuch is examined (i) as a whole, with attention to questions of source criticism, the ancient Near Eastern context of the work, and its importance in later communities of faith; and (ii) through the reading and discussion of passages which give a representative overview of the sources and genres found therein.</p>				
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: 3-hour Written Examination = 50%, Coursework = 50%			

DI4715 The Pentateuch				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>The aim of this module is to explore the narrative and legal literature of Ancient Israel through a study of the Pentateuch in English. The Pentateuch is examined (i) as a whole, with attention to questions of source criticism, the ancient Near Eastern context of the work, and its importance in later communities of faith; and (ii) through the reading and discussion of passages which give a representative overview of the sources and genres found therein.</p>				
Programme module type:	Optional for Biblical Studies, Hebrew, New Testament, Theological Studies			
Pre-requisite(s):	DI1004 and DI2001			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr W Tooman			
Lecturer(s)/Tutor(s):	Dr W Tooman			

DI4805 Practical Theology Special Topic: Theological Issues in Medical Ethics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module explores contemporary debates in bioethics and medical ethics from a theological perspective. Topics will include euthanasia, abortion, 'physician' as a religious vocation, human enhancement technologies, conscientious objection to performing certain procedures, healthcare policy, and others. Our examination of these will be chiefly comparative: that is, readings will compare the answers given by contemporary Christian theologians to those arising from classical liberalism, from earlier stages in church history, and from members of other faiths.</p>				
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Perry			
Lecturer(s)/Tutor(s):	Dr J Perry			

DI4816 The Theology of the Musical				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>This module examines the theological and spiritual dimension of one of the most powerful and distinctive cultural form and icon of the twentieth century - the musical. It involves detailed textual, linguistic, musical and cultural analysis of key musicals, including The Sound of Music, Joseph and the Amazing Technicolor Dreamcoat, Jesus Christ Superstar, Godspell, Fiddler on the Roof, Les Miserables and Whistle Down the Wind, and examination of their implicit and explicit theological agendas and philosophies. The module also considers the musical as a liturgical vehicle and post-modern theological and spiritual experience.</p>				
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: 3-hour Written Examination = 50%, Coursework = 50%			

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DI4916 The Theology of Karl Barth				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The purposes of this module are: Firstly, to explore the structure of Barths systematic theology, through the study of key texts. Secondly, to foster critical response to Barths work, and that of his commentators. Thirdly, to heighten appreciation of Barths significance in the history of modern theology, and his continuing importance for contemporary theological discussion. This module provides an opportunity for students to undertake a detailed study of aspects of the theology of Karl Barth. Students will be introduced to the development and content of Barths theology through the study of texts in translation, especially portions of the Church Dogmatics. Attention will also be given to key commentators on Barths work.</p>				
Programme module type:	Optional for Theological Studies, and M.Theol.			
Pre-requisite(s):	DI2004 and DI3430			
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 = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 3-hour Written Examination = 100%			
Module Co-ordinator:	Prof A Torrance			
Lecturer(s)/Tutor(s):	Prof A Torrance			

DI4924 Theology and Imagination				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 3-hour Written Examination= 50%, Coursework = 50%			
Module Co-ordinator:	Dr G Hopps			
Lecturer(s)/Tutor(s):	Dr G Hopps			

DI4937 The Study of Theology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>The module treats the nature and purposes of theology. Particular attention will be devoted to the history of theological study and to the ways in which the unity of the biblical, historical, doctrinal and practical inquiries may be conceived. The module begins by considering the object, cognitive principles, ends and settings of theology, and its place in the wider world of human intellectual inquiry. It then treats biblical studies, and historical, systematic and moral-practical theology in their historical development and considering their place in the theological curriculum. It closes with a treatment of the relation of intellectual and moral virtues in theological study. The module provides opportunity for students to extend their knowledge of the history of theological inquiry, to study some key classical and modern texts, to engage in critical reflection on the nature of the various sub-disciplines which make up the theological curriculum, and to consider whether theology is a unified intellectual enterprise. This module will be especially pertinent to final-year students seeking to integrate the varied elements so far studied.</p>				
Programme module type:	Optional for Theological Studies, M.Theol. and B.D.			
Pre-requisite(s):	DI3701, 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: 3-hour Written Examination= 50%, Coursework = 50%			
Module Co-ordinator:	Prof J Webster			
Lecturer(s)/Tutor(s):	Prof J Webster			
DI4938 The Doctrine of the Trinity in Historical and Contemporary Perspectives				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Planned timetable:	To be arranged.			
<p>This module will examine the development of the doctrine of the Trinity from the the closing of the apostolic period down to the present day, paying particular attention to the context of, and the historical claims made by, writers associated with the late twentieth-century 'Trinitarian revival,' and the place claimed for Trinitarian doctrine within systematic theology there. By juxtaposing a close examination of these claims with careful study of the historical development of the doctrine, students will be enabled to test and evaluate recent claims.</p>				
Programme module type:	Optional for Theological Studies, M.Theol. and B.D.			
Pre-requisite(s):	DI3701, 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: 3-hour Written Examination= 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Holmes			
Lecturer(s)/Tutor(s):	Dr S Holmes			

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.		
<p>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.</p>			
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. TBC		
Learning and teaching methods and delivery:	<p>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.</p>		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%</p>		
	<p>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.</p>		
Module Co-ordinator:	Dr E Stoddart		

School of Economics & Finance

Economics (EC) Modules

EC3201 Advanced Microeconomics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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, B.A. (Int Hons) 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 = 85%, 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				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Thu and Fri.			
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.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, B.A. (Int Hons) 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 (Class Test) = 40%, Report = 40%, Presentation = 20%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr J Sohkanen			

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EC3203 Advanced Macroeconomics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon, Tue and Wed.			
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.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, B.A. (Int Hons) 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 = 85%, 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			

EC4201 Economic Analysis				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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, B.A. (Int Hons) 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 = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 3-hour Examination = 70%, Coursework = 30%			
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
Academic year:	2013/4			
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, B.A. (Int Hons) 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: 2-hour Written Examination = 70%, Coursework = 30%			
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
Academic year:	2013/4			
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 Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
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			

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EC4204 Financial Economic Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon, Wed, Fri.			
<p>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.</p>				
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 = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 3-hour Examination = 70%, Coursework = 30%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Selvaretnam, Dr G Shea			

EC4205 Economic Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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.			
<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, 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.</p>				
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 Examinations = 70%, Practical Examinations = 15%, Coursework = 15%			
	As used by St Andrews: 3-hour Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr L Lasselle			

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EC4300 Dissertation in Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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:	Compulsory for B.A. (Int Hons) Economics. Optional for Single Honours Economics, Financial Economics			
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 Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Dissertation = 85%, Coursework = 15%			
Module Co-ordinator:	Dr P Macmillan			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

EC4302 Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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			
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 Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Dissertation = 85%, Coursework = 15%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

Economics & Finance - Honours Level - 2013/14 - August 2013

EC4501 Capital Investment Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 pm Thu, Fri.			
<p>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.</p>				
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: 2-hour Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Shea			

EC4502 Corporate Finance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr G Shea			

EC4503 The Economics of Innovation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
Innovation is both a major contributory factor in economic growth and a crucial element of competitive behaviour and policy. The aim of this module is to introduce students to recent developments in the economic theory of innovation. The module, which is analytical in nature, examines the incentives firms have to innovate by the introduction of new products and new processes and, in particular, how this is affected by strategic competitive conditions.				
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			

EC4504 Economics of Social Life				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module considers the application of microeconomic theory to various aspects of non-market social activity not generally considered to be economic in character. Much of the course focuses on the household production model introduced by Gary Becker, and its various applications to marriage, divorce, sleep, fertility, addiction and religion. In addition, there will be some consideration of the economics of courtship, sex, cohabitation, illegitimate births, altruism and gift giving.				
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			

Economics & Finance - Honours Level - 2013/14 - August 2013

EC4506 Experiments in Economics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module deals with aspects of bargaining, negotiation, conflict and choice under uncertainty. It draws heavily on evidence from laboratory experiments on human subjects which aim to test the congruence of game theory and microeconomic theory with observed behaviour. The topics covered will be selected from the following: auctions and bidding behaviour; sunk cost accounting; preference reversal; free riding and public goods; deadline effects and ultimatum games; co-ordination games; the determinants of bargaining behaviour; the subject incentive problem; experimental design and experimental ethics.</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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			

EC4508 Industrial Organisation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			

EC4510 Issues in Economic Policy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr L Lasselle			

EC4511 Labour Economics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Core microeconomics modules provide the basic tools for the understanding of labour economics. This module aims to build upon these foundations, examining in some detail a series of topics of interest within the labour economics field. These include the functioning of labour markets, and how wages, employment and unemployment are determined. In particular, the role of differing institutions across countries and how they influence labour market outcomes will be explored.</p>				
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			

EC4513 The Macroeconomics of European Integration				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The purpose of the module is to explore the macroeconomic and monetary issues involved in European economic integration. After a historical introduction focused on the question of why the members of the EC/EU have sought exchange rate stability and then monetary union, the module provides a thorough examination of the theory of optimum currency areas, including both traditional and modern approaches, and both theoretical and empirical European-related research. It then investigates the workings of the pre-EMU European monetary arrangements, the European Monetary System. The monetary policy strategy of the ECB will then be considered and the relationship between fiscal and monetary policy and the desirability of stability pact limits on fiscal policy will be examined. Finally, we will examine and evaluate the experience of EMU.</p>				
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			

EC4515 Public Finance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The aim of the module is to apply principally microeconomic reasoning to understand a range of issues in the economics of the public sector. It will examine the growth of government expenditure, the arguments for it and the problems of its management. It will discuss issues such as how much public provision there should be of both private and public goods, the growth of social security and its implications for efficiency and equity, and the problems of coping with an ageing population. Since taxes finance a large part of this spending, the module will look at the pattern of taxation (both nationally and internationally), the effects of tax on the behaviour of economic agents, and the design of a tax system. The module also discusses other topical issues in public finance such as devolution, the regulation of industry and the auctioning of public assets.</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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			

EC4520 Economics of Inequality				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The module is designed to foster an understanding of economic inequality both from theoretical and practical perspectives. It mainly aims to convey how economists approach and deal with inequalities of income, wealth and consumption or inequalities of non-income variables such as health or education both between individuals and between social groups such as gender or ethnic groups. How different inequalities are assessed by international institutions such as World Bank and how relevant policies are produced in return are of main concerns of the course. The driving forces of economic inequality and its relation to other economic criteria such as growth are analysed as well from a historical global perspective.</p>				
Programme module type:	Optional for Economics, Applied Economics			
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer/Tutor(s):	Dr T Cuhadaroglu			

EC5399 Dissertation				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
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: 15-Minute Examination = 15%, Dissertation = 85%			
Module Co-ordinator:	Ms L Pert-Davies			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

School of English

English (EN) Modules

EN3111 Beowulf				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) English			
Anti-requisite(s):	EN3010, ME3012			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr C Rauer			
Lecturer(s)/Tutor(s):	Dr C Rauer			

EN3112 Chaucer's Canterbury Tales				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 pm - 5.00 pm Mon.			
<p>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)</p>				
Programme module type:	Group A Optional for English and B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr I R Johnson			
Lecturer(s)/Tutor(s):	Dr I R Johnson			

English - Honours Level - 2013/14 - August 2013

EN3113 Unreformed Scotland: Older Scots Literature to 1560				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
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
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof N P P Rhodes			
Lecturer(s)/Tutor(s):	Prof N P P Rhodes			

EN3162 Revolution and Romanticism: Literature, History and Society, 1789-1805				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Tue and 10.00 am Thu.			
This module provides wide-ranging reading in the literature of the 1790s, with emphasis on the interaction between literature, history and political revolution during this decade. (Group C)				
Programme module type:	Group B Optional for English and B.A. (Intl Hons) English			
Learning and teaching methods and delivery:	Weekly contact: 2 hours per week: 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof N H Roe			
Lecturer(s)/Tutor(s):	Prof N H Roe			

English - Honours Level - 2013/14 - August 2013

EN3163 The Younger Romantics: Poetry and Prose (1810 - 1830)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof N H Roe			
Lecturer(s)/Tutor(s):	Prof N H Roe			

EN3164 Self and Society in the Victorian Novel				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Mr P V Mallett			
Lecturer(s)/Tutor(s):	Mr P V Mallett			

EN3207 Twentieth-Century British and Irish Drama				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P H Parry			
Lecturer(s)/Tutor(s):	Dr P H Parry			

EN3210 Twentieth-Century American Drama				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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, section I for B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P H Parry			
Lecturer(s)/Tutor(s):	Dr P H Parry			

English - Honours Level - 2013/14 - August 2013

EN3212 Modernist Literature: Making It New?				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm - 4.00 pm Fri			
<p>This module will survey a representative sample of modernist fiction and poetry, providing an opportunity for the in-depth study of key conceptual shifts and formal innovations in modernist literature. Thematically, it will take as its central focus the question of how the modernist desire to break with the past and 'make it new' existed alongside an on-going interest in tradition and the past. We will consider topics such as Imagism and classicism; modernist uses of myth; the modernist pastoral; modernism and memory; exile and imagined return; and the anticipatory nostalgia of the 1930s. (Group E)</p>				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 1-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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr C M Alt			
Lecturer(s)/Tutor(s):	Dr C M Alt			

EN3213 Postcolonial Literature and Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon and 12.00 noon Fri			
<p>A diverse and contested field, postcolonialism explores a world transformed by European exploration, exploitation and empire-building. This course examines literary representations of this world and will introduce students to a range of key texts, critical debates and theoretical concepts in postcolonial studies. Focusing, in particular (but not exclusively), on the legacies of the British empire, we will explore the work of writers from across Africa, the Caribbean, India and Britain in order to question the ways in which postcolonial literature and theory challenges our understanding of race, class, gender, language and the individual. How has the history of empire shaped the world in which we live? In what ways have writers responded to the pressures to both commemorate the colonial past and move beyond it? And, what role can literature play in the attempt to challenge the historical and political injustices of our postcolonial world? (Group E)</p>				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact:			
	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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr L M Burns			

EN3214 The Country and the City in Scottish Literature				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am - 11.00 am Mon and 10.00 am - 11.00 am Wed			
<p>What and where is Scotland? How have the cities and the countryside of Scotland been created over the last 200 years? And what are the internal and external borders of Scottish literature – psychologically, geographically and formally? By exploring Scottish novels – and poetry – from the early 19th century to the present day we examine the literary construction and deconstruction of Scotland through depictions of its rural and urban spaces. In particular, we analyse dystopian and utopian fantasies, green and gothic tendencies, and nostalgia both for the lost idyllic countryside and for gritty, urban ‘reality’, to ask if Scotland as a literary construction makes sense – and if it needs to. (Group E)</p>				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 2x 1-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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P Mackay			
Lecturer(s)/Tutor(s):	Dr P Mackay			

EN4311 Old English Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm - 4.00 pm Mon.			
<p>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)</p>				
Programme module type:	Group A Optional for English and B.A. (Intl Hons) Englis			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr C Rauer			
Lecturer(s)/Tutor(s):	Dr C Rauer			

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EN4314 Old English Afterlives: Literary Anglo-Saxonism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	3.00 - 5.00 pm Tue.			
<p>On this module students will study the relationship between Old English literary culture and the modern imagination. Poems, novels and films from the nineteenth to the twenty-first centuries will be studied alongside Old English 'sources' such as Beowulf and Bede, and students will produce their own examples of Anglo-Saxonist creative work as well as investigating that of writers from Wordsworth to Heaney. The module focuses on literary technique, as well as on the history and ideology of Anglo-Saxonism. It is recommended that students have previously taken an Old English beginner's course (such as EN2003), as Old English texts are studied rigorously in the original language. (Group A)</p>				
Programme module type:	Optional for English and B.A. (Intl Hons) Englis			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (1 x formative assessed Essay =required but zero credits, 1 x 2,000-2,500-word Critical Essay = 25%, 1 x Class Translation Test = 25%, Portfolio = 50%)			
Module Co-ordinator:	Dr C S Jones			
Lecturer(s)/Tutor(s):	Dr C S Jones			

EN4315 Apocalyptic Literature in Early English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 3-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr M R Purdie			
Lecturer(s)/Tutor(s):	Dr M R Purdie			

EN4341 Renaissance Sexualities: Rhetoric and the Body 1580 - 1660				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof L M Hutson			
Lecturer(s)/Tutor(s):	Prof L M Hutson			

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EN4342 Restoration Theatre				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon and 10.00 am Fri.			
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)				
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr M C Augustine			
Lecturer(s)/Tutor(s):	Dr M C Augustine			

EN4343 Literature and Law in Early Modern England				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Thu and 11.00 am Fri.			
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)				
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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	2.00 pm Mon and 11.00 am Wed.			
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)				
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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
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 Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
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
Academic year:	2013/4			
Planned timetable:	10.00 am Tue and Thu			
<p>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)</p>				
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr A L Davis			
Lecturer(s)/Tutor(s):	Dr A L Davis			

EN4361 The Novels of Jane Austen in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S J Stabler			
Lecturer(s)/Tutor(s):	Dr S J Stabler			

EN4365 Literature and Childhood in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S C Manly			
Lecturer(s)/Tutor(s):	Dr S C Manly			

EN4366 Byron's Long Poems and Dramas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am - 12.00 noon Mon			
This module provides an opportunity to study the poetry of Lord Byron in depth and to explore what made him one of the most controversial writers of his time. Particular attention will be devoted to Byron's verse craftsmanship and students on the course will learn about the peculiar challenges and rewards of editing a Romantic poet who placed a great deal of emphasis on the way that the reader co-produces poetic meaning. (Group C)				
Programme module type:	Group C Optional for English			
Pre-requisite(s):	EN3163			
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S J Stabler			
Lecturer(s)/Tutor(s):	Dr S J Stabler			

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EN4399 Dissertation in English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am Fri.			
<p>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/)</p>				
Programme module type:	Compulsory for Single Honours English and B.A. (Intl Hons) 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 Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr S J Stabler			
Lecturer(s)/Tutor(s):	Team taught			

EN4405 Contemporary Poetry in Great Britain and Ireland				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am - 11.00 am Tue.			
<p>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)</p>				
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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	11.00 am - 12.00 noon Mon and Thu.			
This module is designed to explore the range and diversity of British 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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof G M Plain			
Lecturer(s)/Tutor(s):	Prof G M Plain			

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EN4409 Modern American Drama				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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, section I for B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P H Parry			
Lecturer(s)/Tutor(s):	Dr P H Parry			

EN4414 Thomas Hardy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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, section II for B.A. (Intl Hons) 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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
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
Academic year:	2013/4			
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, section II for B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof R Crawford			
Lecturer(s)/Tutor(s):	Prof R Crawford			

EN4416 Virginia Woolf				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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, section II for B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr E Sutton			
Lecturer(s)/Tutor(s):	Dr E Sutton			

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EN4417 Creative Writing 1				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Wed. plus a workshop (time TBA)			
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:	Mr J B Polley			
Lecturer(s)/Tutor(s):	Mr J B Polley			

EN4418 American Poetry since 1950				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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, section I for B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	2.00 pm and 3.00 pm Fri.			
<p>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)</p>				
Programme module type:	Group E Optional for English, section I for B.A. (Intl Hons) 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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J D Byatt			
Lecturer(s)/Tutor(s):	Dr J D Byatt			

EN4420 Creative Writing 2				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Wed and 1 workshop to be arranged.			
<p>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)</p>				
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 Examinations = 0%, Practical Examinations = 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			

English - Honours Level - 2013/14 - August 2013

EN4422 Poetic Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm , 12 noon Thu			
<p>This module focuses on the history of thinking about poetic language, primarily in English-language traditions. Its core will be the study of twentieth- and twenty first-century theories of poetic language, but it will draw on theoretical and literary texts from the fourteenth century onwards. Poetic language is a contested topic in various established and emerging disciplines: literary linguistics, post-structuralist theory, philosophy of language, cognitive poetics, practice-led research. This module will draw together the study of poetic language from these various perspectives, and enable students to apply their theoretical studies to a wide range of poetic texts, and to appreciate how those texts complicate theoretical work. The module will help to bridge the gaps between different ways of studying poetry in the university context – theoretical, scholarly, creative. (Group E)</p>				
Programme module type:	Group E Optional for English			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, 1 x 1 hour seminar and 2 optional consultative hours.			
	Scheduled learning: 50 hours		Guided independent study: 250 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 E Jones			
Lecturer(s)/Tutor(s):	Dr T E Jones			

EN4423 Material Culture in Victorian and Modernist Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 - 5.00 pm Thu			
<p>This module will use material culture studies as a lens through which to consider the continuities and ruptures between Victorian and modernist attitudes towards material culture and the ways in which attitudes towards the material informed the stylistic choices of fiction writers in these periods. Victorian novelists typically filled their works with detailed descriptions of physical environments and objects in order to create the 'solidity of specification' characteristic of realist fiction; modernist writers rejected this method as 'materialist' and sought alternatives to the solidity of the triple-decker novels of the Victorians. However, this module will question such easy distinctions and consider both differences and continuities between Victorian and modernist writers' fascination with and suspicion of things. Authors studied may include Elizabeth Gaskell, Charles Dickens, Arthur Conan Doyle, E M Forster, and Virginia Woolf. (Group E)</p>				
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr C M Alt			
Lecturer(s)/Tutor(s):	Dr C M Alt			

EN4424 Nationalists and Nomads: Contemporary World Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm - 4.00 pm Thu			
<p>In an era of globalisation who 'speaks' the nation-state? How do communities negotiate their borders? Who 'belongs' and who decides? This module explores the changing nature of the nation-state and cultural expressions of belonging in the wake of decolonisation, independence, revolution and globalisation. Exploring a diverse range of texts drawn from across the globe, we will question the significance of 'world literature' and its relation to postcolonialism, 'cosmopolitanism' and national literatures. From the Haitian Revolution, independence movements, the Biafran war, Trujillo's Dominican dictatorship and the 'parsley massacre' to tourism and globalisation, this course is an opportunity to reflect on the pressures facing our global imagined communities in the late twentieth and twenty-first centuries.</p>				
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr L M Burns			

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EN4425 Celtic Modernisms				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Tue and 11.00 am Thu.			
<p>How exclusive a club is modernism? Did Scottish and Irish cultural nationalism inform and trouble 'modernist' writing? And what role did writers from the 'Celtic fringe' of the British archipelago play in reinvigorating and reconfiguring the literary canon in the period between 1914 and 1939? By analysing a diverse range of texts from Scottish, Irish and (Anglo-)Welsh writers – from formal as well as socio-political perspectives – we will explore alternative views of the Modernist period: in particular we will examine the relationship between the Irish Literary Revival and the Scottish Renaissance, and between the Celtic periphery and the metropolitan centre, and also the ways the writers studied turned the English language, and its hierarchies and traditions, back on itself. (Group E)</p>				
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P Mackay			
Lecturer(s)/Tutor(s):	Dr P Mackay			

School of Geography & Geosciences

Environmental Geography (EG) modules

EG3020 Global Climate Change				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
Climate change is one of the most challenging environmental problems currently facing society. Recent global warming likely lies outside the range of natural variability when compared to the last 1000 or even 2000 years. This module addresses how this consensus view has been derived and considers the scientific evidence and arguments that underpin our current understanding of climate change. The module examines both strengths and limitations of long-term proxy climate records, historical datasets based upon direct observation, models of the climate system, and areas of greatest uncertainty within current knowledge. The impacts and policy responses to climate change are also introduced.				
Programme module type:	Optional for Earth Sciences, Geography and Environmental Earth Sciences			
Pre-requisite(s):	Normally ES2002 or ES2003 with the caveat that students with Geography Level 2 would also be acceptable.			
Anti-requisite(s):	GG3265, GG3268			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practicals and tutorials			
	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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Walden			
Lecturer(s)/Tutor(s):	Dr J Walden, Dr R Wilson, Dr T Hill, Dr T Raub			

EG3031 Special Topic for Physical Geography				
SCOTCAT Credits:	5	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Available only to Geography students			
Planned timetable:	To be arranged.			
This module provides support and guidance for geography students taking one of the Earth & Environmental Science modules offered as part of the Geography degree (normally ES3020-ES3030). In addition Geography MA and BSc students taking 15-credit modules from the Science Faculty may find themselves 5 credits short and this module provides the necessary credit top-up.				
Programme module type:	Optional for Geography students also taking one of EG3020 - EG3030			
Pre-requisite(s):	Acceptance onto the Geography Honours Programme.			
Co-requisite(s):	One from EG3020 - EG3030			
Learning and teaching methods and delivery:	Weekly contact: Occasional tutorials.			
	Scheduled learning: 8 hours		Guided independent study: 40 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 Walden			
Lecturer(s)/Tutor(s):	Dr J Walden			

Earth & Environmental Sciences (ES) modules

ES3001 Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module provides training in independently constructing and interpreting geological maps and cross sections. It develops the student's abilities to recognise structures in both two and three dimensions and, by inferring how these structures have changed with time, to develop four-dimensional intellectual skills. The module provides training in defining geological sampling strategies and field report writing.				
Programme module type:	Compulsory for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Science			
Pre-requisite(s):			Anti-requisite(s):	
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 T Prave			
Lecturer(s)/Tutor(s):	Dr T Prave			

ES3002 Analytical and Statistical Methods in Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Science			
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 Finch			
Lecturer(s)/Tutor(s):	Dr A Finch, Dr R Wilson			

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ES3003 GIS and Spatial Analysis for Earth Scientists				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session).			
<p>This module covers the principles behind, and practical application of, spatial analysis in Earth Sciences. This includes the analysis of primary and secondary datasets, how to access and import a variety of data types, and the fundamentals of various spatial analytical methods including spatial statistics and modeling within a GIS environment. The module also prepares students for the correct presentation of maps and datasets in the dissertation proposal and thesis.</p>				
Programme module type:	Compulsory for BSc Geology and Environmental Earth Science, and MGeol Earth Science			
Pre-requisite(s):	Normally ES3002			
Learning and teaching methods and delivery:	Weekly contact: 2-3 lectures and practicals per week over 6 weeks.			
	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
Academic year:	2013/4			
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).			
<p>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, 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 fourth-year field course.</p>				
Programme module type:	Programme module type: Compulsory for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Science			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr T Prave			
Lecturer(s)/Tutor(s):	Dr T Prave, Dr R Robinson, Mr S Allison			

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ES3005 Field Remote Sensing Methods in Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 that include survey techniques and remote sensing using high resolution geophysics for solid and 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 BSc Geology and Environmental Earth Science, and MGeol Earth Science			
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 R Bates			
Lecturer(s)/Tutor(s):	Dr R Bates			

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ES3006 Advanced Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Science			
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 Finch			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES3007 Structural Geology and Tectonics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Tue and Thu (lectures), 2.00 – 5.00 pm (practicals)			
<p>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.</p>				
Programme module type:	Compulsory for BSc Geology and MGeol Earth Science			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof P Cawood			
Lecturer(s)/Tutor(s):	Prof P Cawood			

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ES3008 Environmental Geoscience				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 BSc Environmental Earth Science and MGeol Earth Science Optional for BSc Geology and joint degrees with Biology and Chemistry			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr N Tosca			
Lecturer(s)/Tutor(s):	Dr NTosca, Dr E Tipper			

ES3009 Igneous and Metamorphic Petrology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 BSc Geology, joint degrees with Biology and Chemistry, and MGeol Earth Science; optional for BSc Environmental Earth Science			
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: 2-hour Written Examination = 50%, 2 x 2-hour Practical Examination = 50%			
Module Co-ordinator:	Dr C Donaldson			
Lecturer(s)/Tutor(s):	Dr C Donaldson, Dr E T Tipper, Dr A A Finch			

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ES3010 Advanced Environmental Field Methods				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 BSc Environmental Earth Science			
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			

ES3099 Field Methods in Geosciences				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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):	Earth and Environmental Sciences staff			

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ES4001 Field Excursion and Map Interpretation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12 days fieldwork in August – September. 9.00 am – 5.00 pm Fri (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 BSc Geology and MGeol Earth Science			
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 T Prave			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES4002 Research Review, Essay and Seminar				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2013/4			
Availability restrictions:	B.Sc. students may only take this module in semester 1, M.Geol. students can take this module in either semester.			
Planned timetable:	Not applicable.			
	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.			
Programme module type:	Compulsory for BSc Geology and Environmental Earth Science, and MGeol Earth Science			
Pre-requisite(s):	Admission to an Honours Earth Sciences programme or Environmental Earth Science			
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: Practical Examination = 15%, Coursework = 85%			
Module Co-ordinator:	Dr C H Donaldson			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES4003 Research Dissertation				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to Single Honours Earth Science students			
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 BSc Geology and Environmental Earth Science			
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):	Earth and Environmental Sciences staff			

ES4004 Integrated Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	10.00 am Mon and Wed (lectures). 9.00 – 12.00 noon Tue (practicals).			
<p>This module develops independent and critical thinking for students, writing skills, and confidence in discussions and therefore supports the dissertation module offered in fourth year. It also promotes the integration of knowledge in Earth and environmental sciences gained over four years, bringing together the various themes explored in the modules of the degree. It is assessed by reports based on seminars and associated literature, a single comprehensive 4-hour laboratory practical exam, and a Dissertation Conference where a poster on the key findings is produced and presented. Career skills are developed through a mock job application and interview with aff and professionals from industry.</p>				
Programme module type:	Compulsory for BSc Geology and Environmental Earth Science			
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: 4-hour Practical Examination = 70%, Coursework = 30%			
Module Co-ordinator:	Dr R A J Robinson			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences Staff			

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ES4006 Advanced Igneous Petrogenesis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Science			
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: 2-hour Written Examination = 50%, 3-hour Practical Examination = 50%			
Module Co-ordinator:	Dr C H Donaldson			
Lecturer(s)/Tutor(s):	Dr C H Donaldson, Dr A A Finch			

ES4007 Petroleum Exploration and Geophysics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am – 1.00 pm Thu (lectures), 2.00 -5.00 pm Thu (practicals).			
<p>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.</p>				
Programme module type:	Optional for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Science			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Bates			
Lecturer(s)/Tutor(s):	Dr R Bates, Dr T Prave			

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ES4008 Environmental Excursion and Maps				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 and key analytical techniques.				
Programme module type:	Compulsory for BSc Environmental Earth Science			
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):	Earth and Environmental Sciences staff			

ES4010 Joint Honours Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 joint degrees with Biology and Chemistry			
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):	Earth and Environmental Sciences staff			

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ES4011 Work Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 BSc Earth Sciences and MGeol Earth Science			
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):	Earth and Environmental Sciences staff			

ES4012 Research Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 BSc Earth Sciences and MGeol Earth Science			
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 = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R Bates			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES5001 Expedition Field Course				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	Summer
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Fieldwork in Earth Sciences is key to graduate job prospects and is a platform for students to bring together the many aspects of Earth Sciences. The present module will involve the students not just in carrying out fieldwork, but also in the logistical and interpersonal sides of success fieldwork design. Students will identify a field area for study in consultation with a member of the teaching staff, which includes several aspects of Earth sciences, such as igneous, sedimentary, economic and environmental geology. The students will form a team and divide the responsibilities for fieldwork and logistics. The assessment will include a memoir that will summarise the geological history of the area, similar to that published by a Geological Survey or the exploration industry. Some student groups may choose to use this module to carry out ambitious fieldwork in a remote setting.</p>				
Programme module type:	Compulsory for M.Geol.in Earth Sciences			
Pre-requisite(s):	Acceptance to Year 5 of MGeol in the Department of Earth Sciences			
Learning and teaching methods and delivery:	Weekly contact: 5 hours of orientation/tutorials over 2 weeks			
	Scheduled learning: 10 hours		Guided independent study: 140 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 Prave			

ES5003 Research Dissertation				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
<p>An individual research project on a topic in 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. 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 7,000 words). The project report will be as a publication-ready article in the manner of the journal "Geology".</p>				
Programme module type:	Compulsory for M.Geol. Earth Sciences			
Learning and teaching methods and delivery:	Weekly contact: 3 Introductory meetings and regular meetings with supervisor.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (Project proposal = 5%, Oral Presentation = 10%, Dissertation = 85%)			
Module Co-ordinator:	Dr R Bates			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES5004 Integrated Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<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 taken through their degree programme. It also promotes independent, critical thinking across the subject. It is assessed by reports on talks/key topics, attendance at a major international conference (EGU) and a single 4-hour exam, in which students 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 M.Geol. Earth Sciences			
Learning and teaching methods and delivery:	Weekly contact: Tutorials, mock job interview, assistance in preparation of EGU throughout the year.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = %, Coursework = 50%			
	As used by St Andrews: 4-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr A A Finch			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES5009 Geodynamics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>A study of the geodynamic evolution of Earth's crust since the Archaean, the evolution of convergent and divergent margins, and the relationships between tectonics, erosion and climate. hydrosphere. The module contrasts geodynamic evolution in the Archaean, Proterozoic, Palaeozoic, Mesozoic and Cenozoic using a number of case studies, including examples visited in the field. The module develops skills of geodynamic interpretation, field observation, use of numerical models, report writing and oral presentation.</p>				
Programme module type:	Compulsory for M.Geol. Earth Sciences; optional for B.Sc. Geology, Environmental Earth Science, and joint degrees in Biology and Chemistry			
Learning and teaching methods and delivery:	Weekly contact: 12 lectures, 1 laboratory class, 2 days in the field.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = %, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%,			
Module Co-ordinator:	Prof P Cawood			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography (GG) modules

GG3201 Method, Field, Data: Researching Geographies in Practice				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 McCarthy			
Lecturer(s)/Tutor(s):	Team taught			

GG3202 Method, Field, Data: Research Training for Joint Honours in Geography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 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.				
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 McCarthy			
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:	2013/4			
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 McCarthy			
Lecturer(s)/Tutor(s):	Team taught			

GG3221 Geographies of Identity and Power				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr M B Sothern			
Lecturer(s)/Tutor(s):	Dr M B Sothern			

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GG3224 HIV/AIDS in sub-Saharan Africa				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 Examinations = 25%, Practical Examinations = 25%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 25%, 2-hour Practical Examination = 25%, Coursework = 50%			
Module Co-ordinator:	Dr M G Kesby			
Lecturer(s)/Tutor(s):	Dr M G Kesby			

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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof D Maclennan			
Lecturer(s)/Tutor(s):	Prof D Maclennan			

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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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D S Houston			
Lecturer(s)/Tutor(s):	Dr D S Houston			

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			
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 Examinations = 60%, Practical Examinations = 24%, Coursework = 16%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Examination = 24%, Coursework = 16%			
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			
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 Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Examination = 10%, Coursework = 30%			
Module Co-ordinator:	Prof C K Ballantyne			
Lecturer(s)/Tutor(s):	Prof C K Ballantyne			

GG3271 Coastal Processes				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The majority of the world's population live in close proximity to the coastal zone. Coastal processes are highly dynamic and sensitive to external drivers, including long-term climate change and anthropogenic activities. Understanding these systems is important for developing appropriate coastal management strategies. Coasts (and coastal processes) therefore represent an excellent opportunity to study the interactions between humans and their physical environment.</p> <p>The module aims to enhance students' understanding of environment-shaping processes and to offer advanced field-based training in the coastal environment. Including practical classes and an obligatory, reasonably priced, weekend field excursion, it encourages students to think about the ways in which process knowledge can inform coastal management.</p>				
Programme module type:	Optional for all degrees involving Geography, and - by arrangement - Environmental Geoscience			
Pre-requisite(s):	Entry to Honours in Geography or Sustainable Development.	Anti-requisite(s):	GG3067	
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr W E N Austin			
Lecturer(s)/Tutor(s):	Dr W E N Austin			

Geography & Geosciences – Honours Level 2013/14 - August 2013

GG3301 Special Topic for Joint or Major Honours in Geography (Junior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography.			
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			
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:	2013/4			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography, or Single Honours Geography.			
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.			
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			

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GG4201 Advanced Debates in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour 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:	2013/4			
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			

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GG4222 Geographies of Difference: Advanced Qualitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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:	2013/4			
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: Practical Examination = 13%, Coursework = 87%			
Module Co-ordinator:	Prof S Fotheringham			
Lecturer(s)/Tutor(s):	Team taught			

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GG4224 Advanced Topics in Physical Geography				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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			

GG4297 Joint Honours Research Dissertation in Geography				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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			

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GG4298 Research Dissertation in Geography				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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/)</p>				
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:	2013/4		
Planned timetable:	To be arranged.		
<p>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).</p>			
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		

Sustainable Geography (SG) modules

SG3235 Science, Society and Natural Resource Management			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Planned timetable:	To be arranged.		
<p>This module examines the role of natural science in understanding the relationship between people and their environment. Much environmental management relies on 'evidence-based' decision-making, perhaps giving the impression that this evidence provides all the answers. This module illustrates how the 'answers' provided by natural science often depend on the interests of the questioner, and explores conflict and debate over issues of natural resource conservation and restoration between scientific, policy and lobby groups. Using a range of Scottish and international case studies – peatlands, woodlands, climate change, and heritage values – the module examines how scientific research is used and translated into practice.</p>			
Programme module type:	Optional for all degrees involving Geography or Sustainable Development		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar.		
	Scheduled learning: 26 hours	Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Module Co-ordinator:	Dr A Davies		
Lecturer(s)/Tutor(s):	Dr A Davies		

School of History

Including: Mediaeval, Modern and Scottish History and Middle East Studies (see also Ancient History within Classics section and Arabic within the Modern Languages section)

History (HI) modules

HI4101 Communication in History				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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			

HI4997 Recording the Past				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or with permission HI4999 is compulsory for Modern History, Scottish History. HI4999 (or HI4997 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 = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof G DeGroot			
Lecturer(s)/Tutor(s):	Prof G DeGroot			

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HI4998 Honours Project in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 Modern History, Scottish History. HI4999 (or HI4997 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 Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof F L Muller			

HI4999 Honours Dissertation in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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:	HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or with permission HI4999 is compulsory for, Modern History, Scottish History. HI4999 (or HI4997 or HI4998 when permitted to take ID4002 and HI4101) is compulsory for Mediaeval History, Mediaeval Studies With permission, Optional for Middle East Studies.			
Anti-requisite(s):	HI4997, HI4998, ME4998, CL4999			
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

ME3102 Gildas and the Ruin of Britain c. 367 - 570				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A D Woolf			
Lecturer(s)/Tutor(s):	Dr A D Woolf			

ME3142 The Castle in Mediaeval Scotland 1100 - 1550				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Castles remain the most impressive physical reminders of Scotland's mediaeval past. The great royal fortresses of Edinburgh and Stirling provide symbols of Scotland's past nationhood; the ruined walls and towers of baronial castles demonstrate the power and pretensions of the great lords of the middle ages. As military strongholds, centres of government and lordship, and residences of royal and aristocratic households, these castles give access to the main themes of medieval Scottish politics and society. This module will study the castle in its context. The changing needs of military and domestic architecture in response to the needs of war and peace, the siting of castles and their use in wider structures of authority from Lothian and the marches to the Hebrides, and their role in warfare, as places of refuge and as bases for garrisons, will all be considered. Architectural and archaeological evidence will be combined with descriptions of the Scottish castle in chronicles and record sources to obtain a full understanding of the buildings and their functions.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) History, Scottish History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour. 1 field trip.			
	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: 3-hour Written Examination = 60%, Coursework = 40%			

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ME3162 The Mediaeval Castle				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Anti-requisite(s):	ME3411			
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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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, Mediaeval Studies and B.A. (Intl Hons) 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 = 8%, Coursework = 32%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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, Mediaeval Studies and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr K Fenton			
Lecturer(s)/Tutor(s):	Dr K Fenton			

ME3223 The Rise and Fall of the Carolingian Empire, c.750 - 900				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	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.			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof S MacLean			
Lecturer(s)/Tutor(s):	Prof S MacLean			

History - Honours 2013/14 - August 2013

ME3231 Mediaeval Apocalyptic Traditions 400 - 1200				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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, Mediaeval Studies and B.A. (Intl Hons) 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:	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
Academic year:	2013/4			
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, Mediaeval Studies and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof S MacLean			
Lecturer(s)/Tutor(s):	Prof S MacLean			

ME3233 Power and Identity after Rome 500 - 700				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) 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 = 8%, Coursework = 32%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
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:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<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, Scottish History and B.A. (Intl Hons) History.			
Anti-requisite(s):	ME3014			
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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr K C Stevenson			
Lecturer(s)/Tutor(s):	Dr K C Stevenson			

ME3304 Age of Conquest: Edward I, Scotland and Wales (1239 - 1307)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable .			
<p>Edward I has long been known as the conqueror of Wales, the hammer of the Scots and as a second King Arthur who united the British Isles under his rule. Praised for his rule by English writers and, yet, a hate figure for many Scots and Welsh, Edward's reign was an era of major warfare and political change on the island of Britain. The module focuses on this pivotal period in the thirteenth and early fourteenth century in which ideas of royal sovereignty and national identity worked together to produce sustained conflicts. Detailed examination of the causes and course of Edward's wars with Llywelyn prince of Wales and his settlement of that land, and analysis of the English king's dealings with Scotland, culminating in his conquest of 1296 and the rebellion and warfare which followed, provide the core of this module.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-Hour Written Examination = 60%, Coursework = 40%			
Lecturer(s)/Tutor(s):	Dr M Brown			

ME3308 Adomnan and his World: Scotland and Ireland in the Dark Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Adomnan mac Ronain was born in Donegal, in the north of Ireland, in 624 and went on to become the ninth abbot of Iona, in western Scotland, in 679; a post he held until his death in 704. As both author and subject of hagiography, promulgator of human rights legislation, international ambassador and agent of church reform he is rightly viewed as one of the leading figures of his generation. An examination of his career provides an ideal vehicle for examining the political, social and religious development of Ireland and northern Britain in the seventh century.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A Woolf			

ME3309 Mediaeval St Andrews				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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, plus 1 office 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr K C Stevenson			

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ME3417 The Middle Ages and the Movies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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 and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars, 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
Availability restrictions:				
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 and B.A. (Intl Hons) 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 = 8%, Coursework = 32%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R Cox			
Lecturer(s)/Tutor(s):	Dr R Cox			

ME3425 The Age of Revolt, 1250 - 1450				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) 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 = 8%, Coursework = 32%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) 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 = 8%, Coursework = 32%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J M Firnhaber-Baker			
Lecturer(s)/Tutor(s):	Dr J M Firnhaber-Baker			

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ME3602 The Crusades				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A D Stewart			
Lecturer(s)/Tutor(s):	Dr A D Stewart			

ME3608 Eastern Approaches: Early Mediaeval Armenia c. 500 - 750				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explores Armenian political, social and cultural history in the early mediaeval period. It examines Armenian engagement with the great powers of the day, Rome and Persia as well as Armenian responses to the dramatic reconfiguring of the Near East in the seventh century, when the old order was swept away and replaced by a dynamic Islamic polity. Issues of identity, orthodoxy and heroic history will be studied through a selection of translated extracts from sources originally in Armenian, Greek and Arabic. These sources will be assessed critically and in conjunction with numismatic and epigraphic evidence. This module offers an opportunity to study an early mediaeval Christian society on the eastern fringe of the Roman world and invites comparison with the post-Roman West.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-Hour Written Examination = 60%, Coursework = 40%			

ME3611 The Eastern Roman Empire in the Reign of Justinian 527 - 565				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and B.A. (Intl Hons) History.			
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
Academic year:	2013/4			
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, plus 1 office hour.			
	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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A C S Peacock			
Lecturer(s)/Tutor(s):	Dr A C S Peacock			

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ME4710 England and France at War in the Fourteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Anti-requisite(s):	ME4904			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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 History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Prof S MacLean			
Lecturer(s)/Tutor(s):	Prof S MacLean			

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ME4713 The Cult of Saints				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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 and B.A. (Intl Hons) History.			
Anti-requisite(s):	ME4901			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1.5-hour seminars, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Prof R Bartlett			
Lecturer(s)/Tutor(s):	Prof R Bartlett			

ME4755 Norway in Saga Times				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	9.30 - 12.30 Wed			
This module will look at the history and historiography of Norway between the reigns of Magnus Erlingsson and Hákon IV. This period saw the end of the debilitating civil wars which racked Norway in the twelfth century and also the flourishing of saga literature. The module will involve close reading of the contemporary sags dealing with the events of Norwegian History between c. 1157 and 1266 including the annexation of Iceland and the conflict with the Scottish crown over hegemony in the Western Isles. This is not a course about vikings.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1.5-hour seminars, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A D Woolf			
Lecturer(s)/Tutor(s):	Dr A D Woolf			

ME4813 The Merovingian World				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>At the end of the 'Dark Ages' the Frankish kingdoms were transformed through clashes between secular and religious values. Holy men challenged the standards of royal and ducal courts, while a generation of 'aristocratic saints' developed around noble factions. This module traces the shift in ideals from the harsh asceticism of St Columbanus (d.615) to the reforming spirit of St Boniface (d.754), while examining the problems idealists faced in a world of earthly sanctity, political factionalism, and superstition. In the first semester the module will examine the structures of authority in the changing Merovingian world, from its 'long-haired kings' to Episcopal organisation. The second semester offers a thematic study of interaction between religion and society. Students will draw on the wealth of hagiographical material for the period alongside letter collections, charters and prescriptive literature.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: Three hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-Hour Written Examinations = 60%, Coursework = 40%			

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ME4852 From Leo VI to Basil II: Byzantium in the Tenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and B.A. (Intl Hons) History.			
Anti-requisite(s):	ME4812			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar plus 1 office hour 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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

ME4998 Honours Dissertation in Mediaeval Archaeology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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/)</p>				
Programme module type:	Compulsory for Mediaeval History and Archaeology.			
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 T G Greenwood			
Lecturer(s)/Tutor(s):	Dr T G Greenwood			

Modern History (MO) modules

MO3005 The Early Reformation in Europe 1517 - 1555				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 0%, Practical Examinations = 40%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr M McLean			

MO3019 The Life of the Mind: Key Texts in European Thought, 1512 - 1697				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

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MO3023 Disease and the Environment, c. 1500 - 2000				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J F M Clark			
Lecturer(s)/Tutor(s):	Dr J F M Clark			

MO3038 War and the State in the Era of the "Military Revolution" (1550 - 1730)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Anti-requisite(s):	MO3015			
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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Anti-requisite(s):	MO3015			
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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

MO3047 The Tudors: Power and Piety in Sixteenth Century England				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The Tudors are the most famous dynasty in English history, containing the striking personalities of Henry VIII and Elizabeth I, and ruling over the turbulence of repeated changes of religion from Catholicism to Protestantism and back again. In this module we will explore the structures of power inherent in sixteenth century English government and the dynamics of personal monarchy. How these adapted to the novel conditions of the rule of a boy king (Edward VI) and two queens (Mary I and Elizabeth) will involve discussion both of political practice and ideas about and cultures of rule. The English Reformations will also be analysed to show how politics and religion affected each other. The final class will consider the post-1603 image of the Tudors and their legacy in political and popular history.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Anti-requisite(s):	MO3045, MO3908			
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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr J Rose			
Lecturer(s)/Tutor(s):	Dr J Rose			

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
Academic year:	2013/4			
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, 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A Peacock			
Lecturer(s)/Tutor(s):	Dr A Peacock			

MO3110 African Americans in Slavery and Freedom, 1620-1865				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
An exploration of the experiences of Africans in America from the beginnings of slavery until the American Civil War. The module focuses on the social, cultural and economic aspects of African slavery and freedom during the era in which America was transformed from a colony into a new nation. In particular we will address diversity of experience with discussions of slaves who worked on the land, in the cities, and on the seas. Attention will also be devoted to the Atlantic slave trade, how societies construct race, the world of America's slave owners and memory and slavery.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Lecturer(s)/Tutor(s):	Dr E Hart			

MO3112 Canada - From Age of Exploration to Age of Energy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J F M Clark			
Lecturer(s)/Tutor(s):	Dr J F M Clark			

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MO3113 Stuart Rule and Revolution, 1603 - 1689				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>In the seventeenth century, the British Isles witnessed widespread instability with two monarchs being overthrown; one executed, and one sent into exile after only three years on the throne. Abhorrent policies including novel forms of taxation and unpopular foreign warfare, implemented by court favourites and flawed monarchs all contributed to the breakdown of government. Religious tensions between groups with widely differing visions of the church further fuelled conflict, as did competing ideologies of government. The Stuart century also included some novel experiences, such as the first period of religious toleration in the 1650s and the growth of party culture and the 'public sphere' from the 1670s onwards. This module examines these developments, evaluating competing explanations for the Civil Wars of the 1640s and Revolution of 1688, using a variety of historical approaches and some contemporary documents. As the module includes awareness of British and Irish as well as English history, it complements and provides context for the latter part of module MO3166 which focuses more sharply on debates on British union.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr J Rose			
Lecturer(s)/Tutor(s):	Dr J Rose			

MO3166 Debating Britain: Anglo-Scottish Unionism 1521 - 1707				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G R Rowlands			
Lecturer(s)/Tutor(s):	Dr G R Rowlands			

MO3221 Politics, Culture and Society in the French Revolution, 1789-1815				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S Easterby-Smith			
Lecturer(s)/Tutor(s):	Dr S Easterby-Smith			

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MO3222 French Fancy and Cool Britannia? Franco-British relations from the Seven Years' War to the French Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module examines the relationship between France, Britain, and their empires, from c. 1750 until 1789. Franco-British relations in this period have been widely assumed to be wholly belligerent and antagonistic: the two nations were, after all, direct competitors for markets, colonial possessions and prestige. But how accurate is this construction? Were Franco-British relations consistently characterised by competitive warmongering, confrontation, and distrust? This course investigates the extent and nature of contact between the two countries, and asks how such interactions affected France's economy, culture and national identity. We study the waxing and waning of France's empire and the impact of British competition on France's economic and industrial development. We then delve into the cultural and intellectual exchanges between the two countries, asking how ideas and cultural artefacts circulated (or failed to circulate) across the Channel, and what impact this had on French culture and society.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S Easterby-Smith			
Lecturer(s)/Tutor(s):	Dr S Easterby-Smith			

MO3223 South Asia and the European Encounter (c. 1700 - 1857)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The eighteenth century in South Asia was a period of change and transformation which was shaped on the one hand, by the decline of the Mughal Empire, and on the other, by the growth of European trade with India. This course will focus on this transition from Mughal rule to 'Company Raj'. It will examine the trajectories of European interaction with India and seek to explain how and why the English East India Company became so powerful and influential in South Asia. By focusing on the early years of the 'Company Raj' this course will also explore the ways in which South Asian society and polity changed under early colonial rule.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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 = 5%, Coursework = 35%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A Yechury			
Lecturer(s)/Tutor(s):	Dr A Yechury			

MO3262 Crime, Protest and Policing in Scotland, 1780 - 1914				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module charts the development of popular protest, such as the Scottish Insurrection of 1820, and low level crime from 1780-1914 and analyses the ways in which these activities have been handled by the authorities. It is also concerned with the emergence of police forces in rural and urban Scotland and the criminalization of social life, and questions the historical orthodoxy that the formation of these institutions after 1850 created the basis for a transition to a more orderly and peaceful society.				
Programme module type:	Optional for History, Modern History, Scottish History and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Lecturer(s)/Tutor(s):	Prof W Knox			

MO3263 British Culture in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.standrews.ac.uk/history/infoug/ugtimetable			
This module examines British culture in the eighteenth century. It introduces some of the leading cultural personalities of the age (Johnson and Boswell, Hogarth, Burke, Gibbon, Reynolds, Addison, Wollstonecraft, Paine) and gives students an opportunity to explore some of their most important works. Particular attention will be paid to the dynamic relationship between key trends in British cultural and intellectual life—including the fate of classicism, the rise of the novel, the growth of print media, the yearning for scientific knowledge, the spread of Enlightenment and the progress of radical political ideas—and broader processes in the period such as urbanisation, industrialisation, class tensions, empire, and changes in gender relations and perceptions of national identity.				
Programme module type:	Optional for History, Modern History, Scottish History and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

History - Honours 2013/14 - August 2013

MO3302 Imperial Russia 1815 - 1917				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

MO3317 A 'Struggle for Mastery in Europe'? German Foreign Policy from Bismarck to Hitler, 1871-1939				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
'What is wrong with Germany,' A.J.P. Taylor once observed provocatively, 'is that there is too much of it.' After two World Wars, it seemed that because of its size, geopolitical position and power-political ambitions, the German Reich had posed a threat to Europe ever since 1871. Starting from the observation that the foundation of the Reich was followed by more than forty years of European peace, however, recent research has emphasised the ambiguity of Germany's role in international politics. This module will trace the course of German foreign policy from the Franco-Prussian War, through the Bismarck and Wilhelmine periods, the First World War and the inter-war years until the outbreak of World War Two. While focusing on the major foreign-political developments between 1870 and 1939, the course will also consider the instruments of German foreign policy; the social, economic and cultural forces influencing it; and major historiographical debates which have arisen over it.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: One 2 hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 25%, Coursework = 55%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr F L Müller			
Lecturer(s)/Tutor(s):	Dr F L Müller			

MO3319 'Power without Responsibility' The British Press and British Politics 1850 - 1939				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: Lecture and 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: Weekly lecture and 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Situating 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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

MO3331 The Victorians: Religion and Respectability				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour and occasional fieldwork.			
	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			

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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

MO3333 Language and Nationalism in Central Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

History - Honours 2013/14 - August 2013

MO3334 Nature and Society in Victorian Britain				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
For Romantic poets and natural scientists, Christian missionaries and package tourists, the natural world was a source of inspiration and fascination. This module examines the ways the Victorians encountered and interpreted the natural world. Key themes include: natural theology, Romanticism, imperial exploration and discovery, the growth of tourism and the emergence of science as an expert profession. Students will use contemporary documents to examine the ways in which different social and professional groups constructed and represented the natural world according to their own interests.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 44 hours		Guided independent study: 256 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 Fyfe			
Lecturer(s)/Tutor(s):	Dr A Fyfe			

MO3335 The Japanese Empire and its Aftermath (1873 - 1952)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module traces the history and contradictions of Japan's empire from the first debate over how to "punish" Korea in 1873 and through to consider the early postwar aftermath of Japanese defeat in 1945. We will compare Japanese colonialism in Taiwan, Korea and Okinawa to that of Western empires, the important role of the Sino-Japanese war, and the development of nationalist and pan-Asian ideals.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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 = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: Take-Home Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr K Lawson			
Lecturer(s)/Tutor(s):	Dr K Lawson			

MO3336 Mediterranean Colonialism: Colonisers and Colonised in France, Spain, Italy and North Africa 1890s - 1950s				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module looks comparatively at French, Italian and Spanish colonialism in North Africa (Algeria, Morocco, Tunisia, Libya) during the high point of European imperialism between the late nineteenth and mid twentieth centuries. With an emphasis on comparing experiences of colonialism under different kinds of European rule, and different ideas and practices of empire in the colonial power, it addresses topics such as ideology, culture, violence, settler colonialism, and North African responses to European rule. It will ask to what extent we can identify common features of colonialism across the Western Mediterranean world, and consider lasting effects of colonial rule on both Africans and Europeans.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Anti-requisite(s):	MO3381			
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 = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr S Tyre			
Lecturer(s)/Tutor(s):	Dr S Tyre, Dr K Ferris			

MO3337 China's Revolutions (1850 - 1989)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module traces the modern history of China through the lens of its most transformative political and social changes. It begins with the momentous and transformative rebellions that shook the Qing dynasty to its roots and concludes with the 1989 democracy movement that centered on Tian'anmen square in Beijing. We will examine the ways in which China's revolutions connected themselves with the past in a process that generated a long and rich revolutionary tradition. We will address the issue of identifying revolutionary agency and the social and economic forces that help drive the most violent transformations of China's past two centuries.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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 = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: Take-Home Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr K Lawson			
Lecturer(s)/Tutor(s):	Dr K Lawson			

History - Honours 2013/14 - August 2013

MO3360 The Weaker Sex? Women and Scottish Society 1800 - 1970				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History, Scottish History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr W W Knox			
Lecturer(s)/Tutor(s):	Dr W W Knox			

MO3385 Modern Iran since 1834: Reform and Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module looks at developments in Iranian history from the 19th century to the present with particular reference to the impact of the West. The module will assess the various attempts at reform and the consequences of revolution in a country which is proving to be a major regional and international actor in the 21st century. The module will look at the way in which imperial decline has been managed with a view to reversing an restoring Iran's fortunes as a Great Power. Particular attention will be given to political development. The growth of the modern state and the emergence of nationalism and political Islam.				
Anti-requisite(s):	MO3327			
Learning and teaching methods and delivery:	Weekly contact: One 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 = 16%, Coursework = 24%			
	As used by St Andrews: 3-Hour Written Examination = 60%, Coursework - 40%			
Lecturer(s)/Tutor(s):	Dr A Peacock			

MO3404 Britain in the Era of the Great War				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module will deal with the effects of the Great War upon British politics and society. Topics will include: the preparation for war, militarism, political and military leadership, the war in the trenches, war poetry, the effect of the war upon women and the working class, the legacy of the war, etc. Military campaigns will not be studied in great detail.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: One 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 = 16%, Coursework = 24%			
	As used by St Andrews: 3-Hour Written Examination = 60%, Coursework - 40%			
Module Co-ordinator:	Prof G de Groot			

MO3410 The Third Reich: History and Historiography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 12%, Coursework = 28%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

MO3419 The French 'Civil Wars' of the Twentieth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
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
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 27%, Coursework = 13%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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 = 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			

History - Honours 2013/14 - August 2013

MO3502 War and Welfare: Britain 1939 - 1951				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO3514 Life and Times of the Atom Bomb				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The module examines the period from 1900 to the present day not from the point of view of a single nation but from the vantage point of a single, catastrophic weapon. It combines science with politics, diplomacy, culture and social history. The first few sessions will concentrate on the development of the bomb and its effect upon the scientific community. We will then move to the use of the bomb in 1945, the development of more powerful weapons and the effect of these on Cold War relations. The module also examines how the bomb affected the lives of ordinary people, particularly in the areas of civil defence, peace movements, and popular culture.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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 = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G de Groot			
Lecturer(s)/Tutor(s):	Dr G de Groot			

MO3516 Popular Culture, Nation and Society: Leisure in Britain 1880 - 1960				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
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:	1
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

MO3523 Postcolonial Europe: Empire and its Legacies in Western Europe since 1945				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>What did empire mean to Europeans in the twentieth century, and in what ways have colonialism and its legacies shaped the history of Europe since the end of formal imperial rule between 1945 and 1980? This module looks at postwar Western Europe through an imperial lens, applying new perspectives from the field of postcolonial studies. The module covers three main themes: the question of what empire and its loss meant to the colonisers; migration from former colonies to Europe and its consequences; and the memory, representation and historiography of empire. Focusing mainly on Britain and France but also looking at Belgian, Dutch and Portuguese examples, the module uses a wide range of sources and approaches to explore cultural, social and political aspects of post-colonial Europe.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) 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: Take-Home Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S Tyre			
Lecturer(s)/Tutor(s):	Dr S Tyre			

MO3715 The American Constitution: Past and Present				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Practical Examination = 10%, Coursework = 30%			
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
Academic year:	2013/4			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History, Scottish History and B.A. (Intl Hons) 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: 3-hour Written Examination = 60%, Practical Examination = 10%, Coursework = 30%			
Module Co-ordinator:	Prof C Kidd			
Lecturer(s)/Tutor(s):	Prof C Kidd			

MO4805 The Scottish Enlightenment				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Anti-requisite(s):	SC4111			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

History - Honours 2013/14 - August 2013

MO4807 The Marian Moment: Politics and Ideology in Mary Stewart's Britain 1542 - 1587				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30pm Wed.			
<p>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.</p>				
Programme module type:	Optional for History, Modern History, Scottish History and B.A. (Intl Hons) History.			
Anti-requisite(s):	SC4114			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Prof R Mason			
Lecturer(s)/Tutor(s):	Prof R Mason			

MO4904 Madness and its Social Milieu in Britain, 1560 - 1820				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<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 and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

MO4912 French Absolutism: Richelieu to Louis XIV				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<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 and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G Rowlands			
Lecturer(s)/Tutor(s):	Dr G Rowlands			

MO4930 The Technologies of Victorian Britain				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Wed am			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar per week, plus 1 office hour 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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A K Fyfe			
Lecturer(s)/Tutor(s):	Dr A K Fyfe			

History - Honours 2013/14 - August 2013

MO4932 Russians Making History (1755 - 2000)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>How did Russians write about their past? What conceptual tools did they use? What influenced their approaches, and privileged their choice of subject matter censorship, ideology, the latest philosophical fashions in Western Europe, the quest for truth? Was the Bolshevik Revolution a tabula rasa for historical knowledge, or just one of the more striking examples of the peculiar pendulum swings that have rocked Russia between revolution and reform throughout her entire history? The aim of this module, then, is twofold: to discover the works (and personalities) of a number of Russian historians active in the eighteenth, nineteenth, and twentieth centuries and, through their eyes as professionals or amateurs re-examine aspects of the Russian past.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework= 40%			

MO4938 Progress and Reform: The United States (1880 - 1930)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G A M Mitchell			
Lecturer(s)/Tutor(s):	Dr G A M Mitchell			

MO4949 Debating Indian Futures: From Empire to Republic (1917 - 1950)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

MO4952 The Kennedy Years				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>This module will cover America in the 1960s, through the careers of John, Robert and Edward Kennedy, in the process demonstrating how the political landscape which brought John Kennedy to the White House in 1961 was destroyed by 1969.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-Hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Prof G DeGroot			
Lecturer(s)/Tutor(s):	Prof G DeGroot			

History - Honours 2013/14 - August 2013

MO4959 British Cinema History 1920 - 1960				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Wed am			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	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: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO4961 Mapping Modern Europe: Spatial Perspectives on the Nineteenth and Twentieth Centuries				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed.			
<p>History is a matter of time - and space. While a certain preoccupation with time has been characteristic for large parts of modern European historiography, space has very often been a hidden dimension in history. Over the last years, however, there has been a growing interest in the spatial dimension of European history and a grown concern with the 'sense of place'. Concepts of place, space, boundary, territory and landscape have become central to some of the most exciting developments across the whole field of the humanities and social sciences. This module aims to elucidate these multifaceted concepts, and offers an insight in various aspects of modern European 'spatial history': e.g. geopolitics, (mental) maps and places of memory.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-Hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

MO4962 France and its Empire in the Twentieth Century: Colonialism, Anticolonialism. Post-colonialism				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed.			
In 1918, the French colonial empire was at its zenith. Yet the next fifty years were characterized by imperial decline and conflict, as the certainties of the 'age of empire' were challenged. This module will examine the nature of French colonialism and challenges to imperial power, focusing mainly on the crucial period between 1918 and 1962. Questions that will be addressed include the role of ideology in French imperialism; the effects of imperialism on colonized societies; the ways in which imperial rule was challenged and undermined; the complex relationship between French republican ideals and imperialism; and the legacies of empire in the post-colonial era.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-Hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S Tyre			
Lecturer(s)/Tutor(s):	Dr S Tyre			

MO4965 Ethnic Cleansing and Genocide in Twentieth-Century Europe				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-Hour Written Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

History - Honours 2013/14 - August 2013

MO4967 Elizabethan England: Politics, Religion, and Personalities (1558 - 1603)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Wed am			
<p>The popular image of Elizabethan England is of a successful regime gloriously triumphing over its enemies at home and abroad. But recent historians have instead depicted Elizabeth as an imperfect monarch who constantly obstructed and infuriated her political and ecclesiastical elite by refusing to marry, name an heir, or decisively reform the English Church. This Special Subject considers how power was negotiated, manipulated, exploited, and managed by Elizabeth and those around her. Integrating the political and religious history of the period, it examines courtiers, favourites, counsellors within and outwith the Privy Council, nobles, and bishops. The major questions of Elizabethan government – the best form of the church, the rule of a woman, the marriage of a queen regnant, and dynastic instability – will be examined to uncover who really held power. Primary sources studied range from contemporary printed works to records of the everyday workings of government, to court plays and the visual culture of rule.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 5%, Coursework = 65%			
	As used by St Andrews: 3-hour Written Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Dr J Rose			
Lecturer(s)/Tutor(s):	Dr J Rose			

MO4968 Collecting the Empire in Eighteenth-century Europe: Trade, Travel and Curiosity			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2013/4		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
<p>The world was shrinking in the eighteenth century. Global travel increased exponentially and European society and culture transformed in response. This course examines how Europeans engaged with the massive influx of exotic goods and outlandish information that arrived from their empires. Focussing primarily on France (but placing its history within comparative context), it asks how exotic objects and texts inspired individuals to learn. These strange and marvellous things piqued European curiosity and strongly influenced the development of the sciences. But the democratisation of learning also engendered heated debates among Enlightenment thinkers. The course offers an opportunity to better understand how trade, travel and the rise of curiosity influenced major transitions in the period: science, Enlightenment and empire, to name just a few.</p>			
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 88 hours	Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Module Co-ordinator:	Dr S Easterby-Smith		
Lecturer(s)/Tutor(s):	Dr S Easterby-Smith		

MO4969 East Asian Encounters in the Nineteenth and Twentieth Centuries				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
<p>This module explores encounters with and between the peoples of East Asia. It will begin by closely examining the crucial period of the second half of the nineteenth century when Western imperial powers moved aggressively into the region. While the impact of inter-state diplomatic and economic contacts are important, and discourses of the Other will be considered, the central focus of this module will be to use these encounters to better understand the ways in which identities and cultures within the emerging nation-states of modern East Asia were forged, transformed, or actively redefined by political elites in a constant process of inclusion and exclusion that continues today.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2 x Take-Home Examinations = 60%, Coursework = 40%			
Module Co-ordinator:	Dr K Lawson			
Lecturer(s)/Tutor(s):	Dr K Lawson			

School of International Relations

International Relations (IR) Modules

IR3004 International Political Economy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Fri.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	12.00 noon Wed.			
This module covers: regime theory and international relations; the rise of 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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

International Relations - Honours Level - 2013/14 - August 2013

IR3008 International Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Thu.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P Lehr			
Lecturer(s)/Tutor(s):	Dr P Lehr			

IR3021 Case Studies in Conflict Analysis				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon			
This module provides students with an opportunity to work on case studies in conflict analysis, in which they develop the skills required to analyse the roots, dynamics, key actors and issues-areas in specific conflicts. They will be introduced to the theoretical frameworks contained within conflict analysis about definitions of conflict, perceptions, historical interpretations, political, social, cultural and economic dynamics, initiation and escalation, and then will be asked to choose and investigate a particular case study according to the different analytical frameworks associated with conflict analysis. Problems associated with researching conflict and violence will also be tackled. This will provide the basis for each student to engage in a detailed case study, chosen from a specific list of key cases.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr T Sheppard			
Lecturer(s)/Tutor(s):	Dr T Sheppard			

International Relations - Honours Level - 2013/14 - August 2013

IR3023 US Foreign Policy: The Dilemmas of Empire				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	4.00 pm Mon.			
The module will be descriptive, explanatory, and evaluative. The first week of class will be devoted to a brief survey of theories of foreign policy, focusing on a range of positivist and post-positivist debates. From that point onwards, theoretical debates will be subsumed into the various historical, constitutional and structural descriptions of how US foreign policy is formulated and executed. Throughout the module we will also explore various normative critiques of the conduct of US foreign policy.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

IR3024 The Politics of Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon.			
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".				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof I C Taylor			
Lecturer(s)/Tutor(s):	Prof I C Taylor			

International Relations - Honours Level - 2013/14 - August 2013

IR3025 International Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Wed			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr H Stritzel			
Lecturer(s)/Tutor(s):	Dr H Stritzel			

IR3026 Diplomacy and Conflict Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Tue.			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr T Sheppard			
Lecturer(s)/Tutor(s):	Dr T Sheppard			

International Relations - Honours Level - 2013/14 - August 2013

IR3029 The Logic of Irregular Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Scheipers			
Lecturer(s)/Tutor(s):	Dr S Scheipers			

IR3031 Globalisation and the War on Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Fri.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Beasley			
Lecturer(s)/Tutor(s):	Dr R Beasley			

International Relations - Honours Level - 2013/14 - August 2013

IR3035 Peace Processes and Violence				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	4.00 pm Tue.			
<p>This module will examine issues of violence that confront peacemaking processes in contemporary civil wars. It begins by examining the concepts of peace and peace processes, before considering the role of violence, and violent actors, in facilitating or thwarting a negotiated agreement between combatants. Practical and ethical issues abound: is there a right time to talk to 'terrorists'; can we overcome a deeply embedded culture of violence; are all spoilers necessarily bad? The module will be comparative and draw on contemporary examples.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr H Cameron			
Lecturer(s)/Tutor(s):	Dr H Cameron			

IR3038 Conflict Management, Settlement and Resolution				
SCOTCAT Credits:	30		Semester:	2
Academic year:	2013/4			
Availability restrictions:	IR4502			
Planned timetable:	10.00 am Tue.			
<p>Understanding how and why conflict emerges, and how it may be addressed are crucial issues in the international system. Conflict between states and the emergence of conflict derived from political, social, structural, historical, and ethnic roots have driven the development of apparatus to address conflict, ranging from diplomatic exchanges, the use of military force, peacekeeping, negotiation, mediation and conflict resolution. This module is divided into two main areas, the first discusses various approaches used to analyse conflict, from the point of view of states, individuals and groups, regional and international organisations, investigating dominant issues of conflict, including state-interests, territory, sovereignty, development, resources, identity, culture, ethnicity, and representation. The second part of the module then examines the various approaches that have emerged for addressing conflict. Topical case studies will provide an empirical focus.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

International Relations - Honours Level - 2013/14 - August 2013

IR3041 International Political Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr A F Lang			
Lecturer(s)/Tutor(s):	Dr A F Lang			

IR3042 Representations of Violent Conflict: Research Seminar				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Wed or Thu.			
The module interrogates the nature of violence and the representational dilemmas this creates for the researcher and for conflict analysis more generally. It explores competing and cross-disciplinary theoretical and methodological approaches to study violent conflict, and then applies these to specific case studies. Problems associated with researching conflict and violence will also be covered, including ethical considerations, challenges of field research, and problems of cross-cultural communication. Students will produce an original case study focused on a conflict site or issue of their choice. The module provides instruction on research and writing skills, and trains students to construct theoretical and methodological research frameworks that will augment their preparation for the IR Honours Dissertation.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and occasional film viewing and case study workshops.			
	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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J McMullin			
Lecturer(s)/Tutor(s):	Dr J McMullin			

International Relations - Honours Level - 2013/14 - August 2013

IR3045 Violence in Deeply-Divided Societies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50% , Coursework = 50%			
Module Co-ordinator:	Dr T Wilson			
Lecturer(s)/Tutor(s):	Dr T Wilson			

IR3047 Arrested Development? The Politics of Postcolonialism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Wed.			
<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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50% , Coursework = 50%			
Module Co-ordinator:	Dr M Burgis-Kasthala			
Lecturer(s)/Tutor(s):	Dr M Burgis-Kasthala			

International Relations - Honours Level - 2013/14 - August 2013

IR3048 Peacekeeping and Humanitarian Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Tue.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr N MacQueen			
Lecturer(s)/Tutor(s):	Dr N MacQueen			

IR3049 International History and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Tue.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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			

International Relations - Honours Level - 2013/14 - August 2013

IR3050 State, Power, Crime				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Tue			
<p>This module introduces students to the challenging and thought-provoking approaches of critical criminology and their application to key national and transnational issues in the modern global world in relation to states, power, and crime. It aims to develop a critical understanding of the nature of the state; the scale and type of crimes committed by state agents and agencies; the definitional processes involved in state's labelling acts as criminal; and the forces which explain why and how states enter into deviant or 'criminal' practices and omissions. A range of state crimes will be explored in both the domestic and international spheres as well as specific case studies pertinent to the topics explored. Module content includes crimes against humanity, crimes against nature, state-corporate crime, trafficking in human beings and asylum policy as state crime.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr H Cameron			
Lecturer(s)/Tutor(s):	Dr H Cameron			

IR3051 International Relations Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm Mon			
<p>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.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr A F Lang			
Lecturer(s)/Tutor(s):	Dr A F Lang			

International Relations - Honours Level - 2013/14 - August 2013

IR3052 The Politics of Violence and Resistance in Latin America				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Tue.			
<p>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.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Brett			
Lecturer(s)/Tutor(s):	Dr R Brett			

IR3053 Peacebuilding and Post-Conflict Transition in Latin America				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Tue.			
<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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Brett			
Lecturer(s)/Tutor(s):	Dr R Brett			

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IR3054 Mapping the Boundaries of Emerging and Evolving Securities				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	1.00 pm Mon			
<p>This module aims to explore how security is conceptualised within the disciplines of Critical Security and Geopolitical Studies. The point of departure is to explore how security is made and unmade through processes of interaction. Addressing this issue raises several important questions about where the boundaries of security begin and end. Does it matter if the boundaries between different spheres of interaction overlap and criss-cross? How do these points of intersection coexist and interact? How can we map the construction and implementation of security in zones of visibility and invisibility?</p> <p>Our aim is to take these questions forward by unpacking several separate yet interrelated security issues ranging from the environment to flags to migration to torture and the media, among others established and emerging scholarly debates. Overall the course argues that the boundaries of security are not just material objects. Instead they are conceptualised as sites of linguistic contestation that empowers and disempowers different modes of action. Taking this viewpoint challenges the idea that the boundaries are becoming redundant in an age of globalization. Mapping how we speak about security, and how this language is put into practice, forces us to acknowledge while boundaries are changing they remain important emblems and modalities of international relations.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr F Donnelly			
Lecturer(s)/Tutor(s):	Dr F Donnelly			

IR3055 International Relations and the Internet				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm Tue.			
<p>As a set of technologies, the Internet has played an enormous role in the development of trends which have been, in turn, transformative of international politics: globalisation, the emergence of new transnational political actors, the transformation of certain dynamics of war and conflict, and, potentially, in new revolutions and democratic transitions. Indeed, there is probably no area of contemporary international politics that has not, in some way, had to engage with the question of the transformative importance (or otherwise) of the Internet. Moreover, the Internet is itself governed by complex, contested, still remarkably ill-defined and sometimes unprecedented forms of global and international politics. The politics of the Internet – perhaps as much as the Internet itself – may be of great importance in shaping the way international relations works in the future. In this module, students will be offered an overview of the international politics of the Internet, and the implications of the Internet for international politics.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Mr G Ramsay			
Lecturer(s)/Tutor(s):	Mr G Ramsay			

IR3056 Political Leadership: Theories and History			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2013/4		
Planned timetable:	12.00 noon Wed		
<p>This module investigates the meaning, role, significance, value or ethics of political leadership in the western tradition. Its overall objective is to enable students to analyse and evaluate descriptive, historical, and normative arguments on the significance and function of political leaders in contemporary politics.</p> <p>The module examines competing theories of leadership in their historical and intellectual contexts; it analyses 'leadership' in relation to other political concepts such as sovereignty, democracy, rule of law, and patriarchy. The approach is theoretical and philosophical; examples of historical leaders (e.g. Mandela, Thatcher) will be used to highlight strengths and weaknesses of competing theories of leadership, and to emphasise their ideological assumptions and implications.</p>			
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%		
Module Co-ordinator:	Dr G Slomp		
Lecturer(s)/Tutor(s):	Dr G Slomp		

IR3057 Armaments and International Relations			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Planned timetable:	10.00 am Fri.		
<p>The goal of this course is to introduce students to academic debates and theoretical frameworks that give insights into the impact of armaments (their development, characteristics and proliferation) on international relations. As IR scholars have long recognized, the availability of modern armaments is a key determinant of the international distribution of power. Some have even gone so far as argue that the technological characteristics of armaments fundamentally determines the nature of the international state system. Meanwhile, certain policymakers and NGOs contend that arms dynamics (e.g. arms races and the spread of light weapons) contribute directly to the outbreak of wars. This course will equip students with the analytic tools needed to critically examine both these issues and others.</p> <p>To accomplish this objective, the course will first (weeks 2-5) examine broad theories about how the development of distribution of armaments affects the international state system. Then, the course will focus (weeks 6-7) on the particular issue of whether the 'excessive' production and/or availability of armaments can cause wars. Finally, in the course's three last sessions (weeks 8-10), we will examine how contemporary phenomena—the globalization and Europeanization of arms production—are shaping this particular domain. Ultimately, the understanding that students will gain through this course will enhance their development as political scientists and their ability to work in fields as diverse as: government, NGOs, international organizations, and the corporate sector.</p>			
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%		
Module Co-ordinator:	Dr M DeVore		
Lecturer(s)/Tutor(s):	Dr M DeVore		

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IR3058 Armed Forces, Societies and Governments: An International Perspective on Civil-Military Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module introduces students to academic debates about relations between governments and military organisations. Armed forces are both essential to states' security, yet also pose a latent threat to governments. Indeed, many more governments are overthrown by military coups d'état than succumbed to foreign invasions. Consequently, governments in developing states face the challenge of ensuring themselves against the risk of military interventions in politics. While the menace of military interventions in politics hangs over developing states, even advanced industrial democracies face challenges in their civil-military relations.</p> <p>To shed light on these issues, we will first (weeks 1-2) examine the timeless questions of civil-military relations (through classic texts) as well as how the changing nature of military organizations over time. Then, we will focus (weeks 3-6) on debates about the impact of different modes of civil-military governance in developed states. Finally, in the four final sessions (weeks 7-10), we will examine civil-military relations in developing states, devoting particular attention to the causes and consequences of military coups d'état.)</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr M DeVore			
Lecturer(s)/Tutor(s):	Dr M DeVore			

IR3059 Anglo-American Relations Since 1939: The Special Relationship?				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module explains the coming together of the USA and Britain in the Second World War into what Churchill called a special relationship. Their defence, nuclear, economic and cultural relations from 1939 to the present will be examined both thematically/theoretically and historically. It will be demonstrated that the relationship cannot be explained solely in terms of common security interests (realism), or common values and sentiments (idealism), and that it challenges the norms of the existing sovereign nation-state system. If Anglo-American relations are indeed the special relationship, how do they differ from those with other nation states? What form has it taken over the years? Does it still exist?</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof A Dobson			
Lecturer(s)/Tutor(s):	Prof A Dobson			

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IR3060 Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>The Middle East has recently experienced a wave of potentially transformative revolutions. With the hope for democracy, however, has also come the risk of widespread violence and destabilisation. This module takes an historic, comparative approach to understanding the causes and consequences of revolutions as important social phenomena that have been experienced across every region of the world. We begin with the French, Russian, and Chinese revolutions as cases that have deeply informed theories of revolution. We then analyse peasant rebellions in Southeast Asia and leftist revolutions in Latin America during the mid-twentieth century. Turning to the late 20th century, we examine the often nonviolent revolutions that led to the fall of communism in Eastern Europe and democratisation through constitutional conferences in sub-Saharan Africa. Finally, we return to the Arab Spring and its potential for lasting transformation.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) International Relations			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 2 seminars.			
	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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Ms K Harkness			
Lecturer(s)/Tutor(s):	Ms K Harkness			

IR3061 International Political Theology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>Situated within a recent reassessment of the relation between religion and international politics, this module is designed to investigate the theological dimension in international theory via an examination of Christian Realism and the Augustinian tradition in IR. In particular, the module revisits important theological moments in IR theory as exemplified in the work of Reinhold Niebuhr, Herbert Butterfield, Martin Wight and Hans Morgenthau and assesses the political theologies informing their thought. Finally, the module critically evaluates the recent revamping of political theology in international relations and examines the implications of recasting International Relations as a theo-political discourse for rethinking the global politics of religion.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr V Paipais			
Lecturer(s)/Tutor(s):	Dr V Paipais			

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IR3102 Conflict in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Mon.			
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.				
Programme module type:	Optional for International Relations, Middle East Studies and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr F McCallum			
Lecturer(s)/Tutor(s):	Dr F McCallum			

IR3104 The International Relations of Post-Communist Central and Eastern Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Fawn			
Lecturer(s)/Tutor(s):	Dr R Fawn			

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IR3109 Politics and State Formation in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm Tue.			
This module examines the modern political history of the Middle East, concentrating on the period since 1945. It examines how the pre-modern historical heritage of the region, the impact of imperialism and the advance of modernisation have shaped contemporary politics. The module also examines contemporary political ideologies and movements, elites, the role of the military, authoritarian state structures, economic development policies, and the prospects of Islamization and democratisation. This is done through case studies mainly of Turkey, Iran, Saudi Arabia, Egypt, Syria and, to a lesser extent, other countries.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof R Hinnebusch			
Lecturer(s)/Tutor(s):	Prof R Hinnebusch			

IR3111 Asian Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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IR3113 Gender and Generation				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 pm Tue.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof A Watson			
Lecturer(s)/Tutor(s):	Prof A Watson			

IR3302 Democracy and Revolution in North Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm Fri			
This module examines the causes and evolution of democracy and authoritarianism in North Africa in the post-colonial period. It aims to describe the structural and inter-subjective features of democratic and authoritarian change, and to locate them in vis-à-vis the evolution of regional politics and of the international system. It describes the specificities and dilemmas of authoritarian and democratic governance in each polity with a particular focus on the developments of the last decade (post-2001). It examines in details the relationship between the state and civil society – considering particularly the role of Islamism – within the larger context of processes of political and economic liberalisation as well as regional (north-south) integration.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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 = 45%, Practical Examinations = 0%, Coursework = 55%			
	As used by St Andrews: 3-hour Written Examination = 45%, Coursework = 55%			
Module Co-ordinator:	Dr F Volpi			
Lecturer(s)/Tutor(s):	Dr F Volpi			

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IR4099 Honours Dissertation in International Relations				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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 seven two-hour 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/)				
Programme module type:	Compulsory for Single Honours International Relations and B.A. (Intl Hons) 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 seven research skills seminars of two hours to be held in Weeks 1,3,4,6,7, and 8 in Semester 1 and Week 3 in Semester 2.			
	Scheduled learning: 111 hours		Guided independent study: 489 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 R Beasley			

IR4401 Communication in International Relations				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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			

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IR4507 International Relations of the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm Tue.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof R Hinnebusch			
Lecturer(s)/Tutor(s):	Prof R Hinnebusch			

IR4510 Central Asia in Global Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Wed.			
Dramatically and unexpectedly, Central Asia was thrust to independence in 1991. Of all the Soviet republics, the five of Central Asia - Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan - had been the largest net recipients of Soviet aid, had benefited most economically from the Soviet Union and had thus been the most reluctant to break from the Soviet empire. Once the path of independence was followed, each of these five states faced considerable ethnic, state, economic, social and foreign policy challenges. This module aims to analyse these nation- and state-building agendas, seeking to address critically some of the now widely held assumptions about this post-Soviet area. Moreover, located in one of the worlds most strategic zones, between Russia, China and a troubled Middle East, Central Asia relies on its substantial human and natural resources in the renegotiation of its geopolitical status.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof S Cummings			
Lecturer(s)/Tutor(s):	Prof S Cummings			

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IR4514 Global Public Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

IR4516 The International Relations of Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr I C Taylor			
Lecturer(s)/Tutor(s):	Dr I C Taylor			

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IR4520 Political Islam and International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 rise of pro-Islamic movements across the Muslim world. It focuses on the relationship between Islamic movements and state, and between Islamic movements and civil society within the context of political liberalism and pluralism. The liberal and scriptural interpretations that dominate contemporary debates will be examined in relation to the local, national, regional and global context of contemporary international politics. Of particular relevance are the issues of the compatibility of politics and democracy, of political Islam and state power, of political Islam and liberal-democracy, and of the Western representation of political Islam as a security threat.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr F Volpi			
Lecturer(s)/Tutor(s):	Dr F Volpi			

IR4523 The Aftermath of the Wars: Liberal Dilemmas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof A J Williams			
Lecturer(s)/Tutor(s):	Prof A J Williams			

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IR4532 The Cultural Politics of Human Rights			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2013/4		
Planned timetable:	11.00 am Mon.		
<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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%		
Module Co-ordinator:	Dr G S Sanghera		
Lecturer(s)/Tutor(s):	Dr G S Sanghera		

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IR4535 Theories of Friendship, Solidarity and Peace				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr G Slomp			
Lecturer(s)/Tutor(s):	Dr G Slomp			

IR4536 Warmongers and Peacemakers: Religious Actors and Conflict				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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IR4538 Identities, Belonging and Others				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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			

IR4539 International Law and International Legal Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am Tue.			
<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 and B.A. (Intl Hons) 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: Take-home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr M Burgis-Kasthala			
Lecturer(s)/Tutor(s):	Dr M Burgis-Kasthala			

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IR4541 Dealing in Darkness: An Anatomy of Realism in International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Thu.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
Planned timetable:	2.00 – 4.00 pm Mon and 10.00 – 12.00 noon Tue.			
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.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr C E Gentry			
Lecturer(s)/Tutor(s):	Dr C E Gentry			

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IR4543 Activism and Resistance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm 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 and B.A. (Intl Hons) 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: 3-Hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof A Watson			
Lecturer(s)/Tutor(s):	Prof A Watson			

IR4544 War and Peace in the Caucasus				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon			
<p>The Caucasus region has suffered some of the worst wars, terrorist attacks and violent state-led counter-insurgencies in recent history. This module examines the contending accounts of war, terrorism and instability, giving attention to such conflicts as Chechnya, Nagorno-Karabakh and those in Georgia, including the conventional war of 2008. The interests and efforts of regional and international actors in trying to secure the region will also be examined, as will thematic issues such as democratization and human rights promotion.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Examination = 50%, Coursework = 50%,			
Module Co-ordinator:	Prof R Fawn			
Lecturer(s)/Tutor(s):	Prof R Fawn			

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IR4545 Indian Foreign Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 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 understanding of the state's past, contemporary and future significance. After a 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 21st century.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr C Ogden			
Lecturer(s)/Tutor(s):	Dr C Ogden			

IR4546 The Psychology of International Security				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Beasley			
Lecturer(s)/Tutor(s):	Dr R Beasley			

IR4547 Shadows in the Global Political Economy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Fri.			
<p>This module turns our attention to some of the less pleasant consequences of globalisation, because the same features that encourage the international trade in legal goods and services at the same time encourage the trade in illicit and illegal goods and services. Estimates vary, highlighting the difficulty to measure the clandestine, but the global shadow economy or illicit sector is around 22% of global GDP. This module looks at the illicit/illegal practices of non-state actors in the international and the measures taken by the international community to reduce, counter, and eliminate those practices. It begins with a consideration of economic globalisation and the applicable global political economy theories. It will then cover a number of topics, which may include: money laundering, organised crime, terrorist finance, conflict resources, informal economies, and corruption.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr W Vlcek			
Lecturer(s)/Tutor(s):	Dr W Vlcek			

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IR4548 Force and Statecraft				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module examines the strategic, ethical, and legal considerations inherent to leadership decisions over the deployment of force abroad. The first half of the module explores historic case studies including the British response to Hitler's rise, allied strategic bombing and the purposeful targeting of civilians in WWII, U.S. covert operations during the Cold War, international humanitarian intervention, and economic sanctions against Rhodesia and South Africa. The second half of the module is devoted to understanding recent deployments of force and developing policy responses to current crises such as the famine in East Africa and the civil conflict in Syria. Through debates, policy workshops, and simulations, students will directly contemplate the use of force as an instrument of statecraft.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Ms K Harkness			
Lecturer(s)/Tutor(s):	Ms K Harkness			

IR4549 Theory, Critique and Ideology in International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module is designed to examine the ideological background to the origins and development of International Relations as a distinct discipline. This is explicitly not a course on particular international ideologies (conservatism, liberalism, socialism, Islamism etc.). It is rather a course that introduces students to the sociology of knowledge in IR and assesses the ideological underpinnings of its disciplinary formation as a diverse yet separate area of knowledge in the Social Sciences. The course relates IR theory and historiography to cognate disciplines and theoretical traditions, with a special focus on post-Marxist theories of ideology, in order to offer students the theoretical tools necessary to challenge established narratives in IR, assess the promises and impasses of critical international theory and explore the future of theorising in international relations.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr V Paipais			
Lecturer(s)/Tutor(s):	Dr V Paipais			

School of Management

Management (MN) Modules

MN3101 Corporate Finance and Control			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2013/4		
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: 2-hour Written Examination = 70%, Coursework = 30%		
Module Co-ordinator:	Dr M Clayton		
Lecturer(s)/Tutor(s):	Dr M Clayton		

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MN3102 Organisation Studies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Chen			
Lecturer(s)/Tutor(s):	Dr J Chen			

MN3126 International Business			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2013/4		
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: 2-hour Written Examination = 70%, Coursework = 30%		
Module Co-ordinator:	Dr R Brown		
Lecturer(s)/Tutor(s):	Dr R Brown		

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MN3201 Research Methods: 1			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Availability restrictions:	Available only to Single Honours Management and Single Honours Management Science students.		
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:	MN4301
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
Academic year:	2013/4			
Availability restrictions:	Available only to Single Honours Management and Single Honours Management Science students.			
Planned timetable:	To be arranged.			
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.				
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:	MN4301	
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 Chillas			
Lecturer(s)/Tutor(s):	Team taught			

MN4211 International Marketing				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Mr W Barlow			
Lecturer(s)/Tutor(s):	Mr W Barlow			

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MN4213 Human Resource Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S A Chillas			
Lecturer(s)/Tutor(s):	Dr S A Chillas			

MN4214 Management of Change				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof S Nutley			
Lecturer(s)/Tutor(s):	Prof S Nutley			

MN4223 International Banking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 70%, Coursework = 30%			
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
Academic year:	2013/4			
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: 2-hour Written Examination = 70%, Coursework = 30%			
Module Co-ordinator:	Dr J Desmond			
Lecturer(s)/Tutor(s):	Dr J Desmond			

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MN4227 Corporate Social Responsibility, Accountability and Reporting				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</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 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms L Stevenson			
Lecturer(s)/Tutor(s):	Ms L Stevenson			

MN4235 Public Sector Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Public sector organisations play an important part in everyone's life. Many people are born in public sector hospitals, are educated in public sector schools and colleges, and many then go on to work in or with public sector organisations. As citizens we pay taxes and play a part in the democratic process of electing governments. No matter where you see your future career taking you, it is likely that part of your time will be spent working with the public sector, even if you are not employed in that sector. To do this effectively you need to understand the role of the public sector and its relationship with the private and voluntary sectors. It is also important to understand the task of management in the public sector and the extent to which this differs from private sector management.</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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof K Orr			
Lecturer(s)/Tutor(s):	Prof K Orr			

MN4238 Sustainable Development and Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 50%, Coursework = 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
Academic year:	2013/4			
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			

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MN4263 Entrepreneurship and Small Business Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 (NGOs): Contexts, Contributions, and Challenges				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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			

MN4301 Management Project			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1 or 2
Academic year:	2013/4		
Availability restrictions:	Available only to Single Honours Management and Single Honours Management Science students.		
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, Management Science degrees		
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 Chillas		
Lecturer(s)/Tutor(s):	Dr S A Chillas		

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MN4310 Scenario Thinking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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			
Anti-requisite(s):	MN4225			
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, analysis and scenario generation under time pressure.			
	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			

MN4311 Dynamic Strategic Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
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			
Anti-requisite(s):	MN4203			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Miss C Moran			
Lecturer(s)/Tutor(s):	Miss C Moran			

School of Mathematics & Statistics

Interdisciplinary Studies (ID) Modules

ID5059 Knowledge Discovery and Datamining				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
<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:	<p>Optional for M.Sci. in Computer Science Optional for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems M.Sc. Programmes. Compulsory for Applied Statistics and Datamining Taught Postgraduate Programme. Optional for Statistics Taught Postgraduate Programme.</p>			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C R Donovan and Dr T Kelsey			
Lecturer(s)/Tutor(s):	Dr C R Donovan and Dr T Kelsey			

Mathematics & Statistics (MT) Modules

MT3501 Linear Mathematics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 90% , Coursework = 10%			
Module Co-ordinator:	Dr M R Quick			
Lecturer(s)/Tutor(s):	Dr M R Quick			

MT3503 Complex Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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; Rouche'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: 2-hour Written Examination = 90% , Coursework = 10%			
Module Co-ordinator:	Dr M Carr			
Lecturer(s)/Tutor(s):	Dr M Carr			

MT3504 Differential Equations				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	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. 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 of Mathematics & Statistics.			
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% (2-hour final exam = 90%, class test = 10%)			
Module Co-ordinator:	Prof T Neukirch			
Lecturer(s)/Tutor(s):	Prof T Neukirch			

MT3600 Fundamentals of Pure Mathematics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Prof N Ruskuc			
Lecturer(s)/Tutor(s):	Prof N Ruskuc			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT3601 Fundamentals of Applied Mathematics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
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.				
Programme module type:	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. 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. Optional for all other programmes in the School.			
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Carr			
Lecturer(s)/Tutor(s):	Dr M Carr, Prof C E Parnell			

MT3606 Fundamentals of Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (odd), Wed and Fri.			
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% (2-hour final exam = 90%, class test = 10%)			
Module Co-ordinator:	Prof S T Buckland			
Lecturer(s)/Tutor(s):	Prof S T Buckland			

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MT3607 Computing in Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 & 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: Written Examination = 40% (4 x 20-minute class tests), Coursework = 60%			
Module Co-ordinator:	Dr L Thomas			
Lecturer(s)/Tutor(s):	Dr L Thomas, Dr E Rexstad			

MT3706 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, stationery 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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R King			
Lecturer(s)/Tutor(s):	Dr R King			

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MT3802 Numerical Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 80% , Coursework = 20%			
Module Co-ordinator:	Dr A P Naughton			
Lecturer(s)/Tutor(s):	Dr A P Naughton, Prof C E Parnell			

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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

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MT3833 Utilities, Decisions and Inventories				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2014/5			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri.			
<p>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.</p>				
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT4003 Groups				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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%			
	As used by St Andrews: 2-hour 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:	2013/4			
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: 2-hour 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:	2013/4			
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: 2-hour 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:	2014/5			
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 At least one of MT3607, MT4111, MT4112 and MT5611 compulsory for M.Math. Mathematics At least one of MT3607, MT4111 and MT4112 compulsory for B.Sc./M.A. Mathematics and B.Sc./M.A. Statistics At least one of MT4111 and MT4112 compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) 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%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Module Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell, Dr M Neunhoeffler, 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:	At least one of MT4111, MT4112 and MT5611 compulsory for M.Math. Applied Mathematics and M.Math. Pure Mathematics At least one of MT3607, MT4111, MT4112 and MT5611 compulsory for M.Math. Mathematics At least one of MT3607, MT4111 and MT4112 compulsory for B.Sc./M.A. Mathematics and B.Sc./M.A. Statistics At least one of MT4111 and MT4112 compulsory for B.Sc./M.A. joint Honours Mathematics programmes (including Mathematics 'with' degrees) Optional for all other programmes in the School			
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: 2-hour Written Examination = 70%, Coursework: Project = 30%			
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: Written Examination = 50% (2 x 1-hour class tests), Coursework: Project = 50%			
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:	2014/5			
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: 2-hour 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: 2-hour 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:	2013/4			
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% (2-hour final exam = 90%, class test = 10%)			
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:	2013/4			
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: 2-hour 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:	2014/5			
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: 2-hour 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: 2-hour 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:	2014/5			
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: 2-hour 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:	2014/5			
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: 2-hour 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:	2014/5			
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: 2-hour 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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

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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			
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 J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell			

MT4527 Forecasting				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu.			
<p>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.</p>				
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Papathomas			
Lecturer(s)/Tutor(s):	Dr M Papathomas			

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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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT4531 Bayesian Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Dr R King			
Lecturer(s)/Tutor(s):	Dr R King, Dr M Papatomas			

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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.			
<p>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.</p>				
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J B Illian			
Lecturer(s)/Tutor(s):	Dr J B Illian			

MT4551 Financial Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
<p>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.</p>				
Programme module type:	Compulsory for M.Sci. Applied Quantitative Finance. Optional for all other programmes in the School of Mathematics & 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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr D H Mackay			
Lecturer(s)/Tutor(s):	Dr D H Mackay			

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MT4599 Project in Mathematics / Statistics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 = 80%, Presentation = 20%			
Module Co-ordinator:	Prof K J Falconer			

MT4606 Statistical Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
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: 2-hour 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:	2014/5		
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: 2-hour Written Examination = 80% , Coursework: Project = 20%		
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:	2014/5			
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):	MT2004 and either pre or co-requisite: One of MT3501, MT3503, MT3504, MT3606 or any 3000-level MN module			
Co-requisite(s):	either pre or co-requisite: One of MT3501, MT3503, MT3504, MT3606 or any 3000-level MN module			
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: 2-hour Written Examination = 85%, Coursework: Project = 15%			
Module Co-ordinator:	Dr J B Illian			
Lecturer(s)/Tutor(s):	Dr J B Illian			

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MT4609 Multivariate Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
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: 2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT4614 Design of Experiments				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri.			
<p>This module introduces a wide range of features that occur in real comparative experiments, such as choice of blocks and replication as well as type of design. It includes enough about the analysis of data from experiments to show what has to be considered at the design stage.</p> <p>It includes consultation with the scientist and interpretation of the results.</p>				
Programme module type:	Optional for all programmes in the School (including MSc programmes).			
Pre-requisite(s):	MT2004 and MT3501			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures and either tutorial or practical.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations =80%, Practical Examinations = 10%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 80%, Presentation = 10%, Coursework = 10%			
Module Co-ordinator:	Prof R A Bailey			
Lecturer(s)/Tutor(s):	Prof R A Bailey			

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MT5611 Advanced Symbolic Computation				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2014/5			
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. At least one of MT3607, MT4111, MT4112 and MT5611 compulsory for M.Math. Mathematics. Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	at least one MT4000-level module unless you are on a taught postgraduate programme	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%			
	As used by St Andrews: 2-hour Written Examination = 55%, Coursework: Project = 45%			
Module Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell, Dr M Neunhoeffler, Dr C M Roney-Dougal			

MT5701 Advanced Statistical Inference				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
<p>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.</p>				
Programme module type:	<p>MT5701 or MT5831 is compulsory for M.Math. Statistics Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3606 and any MT4000-level module, unless you are on a taught postgraduate programme			
Anti-requisite(s):	MT4606			
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: 2-hour Written Examination = 75%, Coursework: Project = 25%			
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:	2013/4		
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 ID5059 compulsory for M.Math. Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, 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, unless you are on a taught postgraduate programme		
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: 2-hour Written Examination = 67%, Coursework = 33%		
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:	2013/4		
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:	Also part of M.Math. programme. Optional module for all other undergraduate programmes in the School.		
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: 2-hour Written Examination = 50%, Coursework = 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:	2013/4			
Planned timetable:	10.00 am Mon (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 ID5059 compulsory for M.Math. Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, 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, unless you are on a taught postgraduate programme			
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: 2-hour Written Examination = 60%, Coursework = 40%			
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:	2013/4			
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 ID5059 compulsory for M.Math. Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, 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.	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: 2-hour Written Examination = 50%, Coursework = 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:	2013/4			
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:	At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics. At least 60 credits from MT5751 - MT5753, MT5757, MT5758, 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):	MT3503, 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 = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr C V Tran			
Lecturer(s)/Tutor(s):	Dr C V Tran			

MT5806 Advanced Computational Techniques				
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 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:	At least three from MT5802, MT5806, MT5809, MT5810 and MT5990 compulsory for M.Math. Applied Mathematics. At least 60 credits from MT5751 - MT5753, MT5757, MT5758, 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):	MT3802 and MT4112, unless you are on a taught postgraduate programme.			
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			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5809 Advanced Fluid Dynamics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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. At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4509, 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 = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr J N Reinaud			
Lecturer(s)/Tutor(s):	Dr J N Reinaud			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5810 Advanced Solar Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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, MT5758, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830 and MT5990 compulsory for M.Math. Mathematics. Optional for all other undergraduate programmes in the School. Optional for all Postgraduate Taught Programmes within the School of Mathematics & Statistics.			
Pre-requisite(s):	MT4510, 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 = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Module Co-ordinator:	Prof A W Hood			
Lecturer(s)/Tutor(s):	Prof A W Hood			

MT5812 Advanced Financial Mathematics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm Tue and Fri.			
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).				
Programme module type:	Optional for all programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT4551, unless you are on a taught postgraduate programme.			
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: 2-hour Written Examination = 50% , Coursework = 50%			
Module Co-ordinator:	Dr W R Campbell			
Lecturer(s)/Tutor(s):	Dr W R Campbell			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5821 Advanced Combinatorics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.			
Combinatorics underlies and interacts many topics in discrete mathematics including group theory, statistical design, and statistical mechanics, as well as being a lively subject in its own right. The module will give students a good grounding in the techniques and will engage students with research-level problems. It is designed to make a wide area of combinatorics available to students.				
Programme module type:	<p>At least three from MT5821, MT5823 – MT5830 and MT5990 compulsory for MMath Pure Mathematics.</p> <p>At least 60 credits from MT5751 – MT5753, MT575 – MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 – MT5830, MT5990 and ID5059 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4514 or MT4516			
Learning and teaching methods and delivery:	Weekly contact: 2.5-hour lectures and 1-hour 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:	Prof P J Cameron			
Lecturer(s)/Tutor(s):	Prof P J Cameron			

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.			
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.				
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, MT5758, 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, 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 = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Prof N Ruskuc			
Lecturer(s)/Tutor(s):	Prof N Ruskuc			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5824 Topics in Groups				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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, MT5758, 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: 2.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

MT5825 Measure and Ergodic Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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, MT5758, 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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr M J Todd			
Lecturer(s)/Tutor(s):	Dr M J Todd			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5826 Finite Fields				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2014/5			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
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.				
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, MT5758, 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):	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%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Neunhoeffler			
Lecturer(s)/Tutor(s):	Dr M Neunhoeffler			

MT5827 Lie Algebras				
SCOTCAT Credits:	20	SCQF Level 10	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, MT5758, 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) 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 = 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 2013/14 – August 2013

MT5830 Topics in Geometry and Analysis			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2014/5		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri.		
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.			
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, MT5758, 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 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: 2.5-hour Written Examination = 100%		
Module Co-ordinator:	Prof L Olsen		
Lecturer(s)/Tutor(s):	Prof L Olsen		

MT5831 Advanced Bayesian Inference			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2013/4		
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, unless you are on a taught postgraduate programme.	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: 2-hour Written Examination = 60%, Coursework = 40%		
Module Co-ordinator:	Dr R King		
Lecturer(s)/Tutor(s):	Dr R King, Dr M Papathomas		

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5990 Independent Study Module				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1 or 2
Academic year:	2013/4			
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, MT5758, 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			

MT5991 Professional Skills for Mathematical Scientists				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
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:	Optional for all taught postgraduate programmes within the School of Mathematics & Statistics. 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			

Mathematics & Statistics – Honours Level 2013/14 – August 2013

MT5999 Advanced Project in Mathematics / Statistics				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: Coursework: Project = 80%, Presentation = 20%			
Module Co-ordinator:	Prof K J Falconer			

School of Medicine

Medicine (MD) Modules

MD3001 Medicine: Honours 1 (Cardiovascular and Respiratory Systems)			
SCOTCAT Credits:	60	SCQF Level 9	Semester: 1
Academic year:	2013/4		
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: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Attainment of competence in clinical skills appropriate for this module (Pass/Fail). Coursework will comprise 2 written examinations totaling 25% of the module grade.		
Module Co-ordinator:	Dr A Fleet and Dr W Dhaliwal		

Medicine - Honours Level - 2013/14 - August 2013

MD3002 Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Availability restrictions:	Available only to students enrolled in the B.Sc. Honours Medicine programme.			
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: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Attainment of competence in clinical skills appropriate for this module (Pass/Fail). Coursework will comprise 2 written examinations totaling 25% 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
Academic year:	2013/4		
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: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Attainment of competence in clinical skills appropriate for this module (Pass/Fail). Coursework will comprise 2 written examinations totaling 25% of the module grade.		
Module Co-ordinator:	Dr J P Issberner, Dr R Davies		

Medicine - Honours Level - 2013/14 - August 2013

MD4002 Medicine: Honours 4 (Student-selected component)				
SCOTCAT Credits:	40	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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) research project. This SSC will enable students to pursue an area of their own particular interest at an advanced level. SSCs will involve one of the following: - lab/data based research project assessed by dissertation and oral presentation – critical review 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: Lab/data based research or critical review 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
Academic year:	2013/4			
Availability restrictions:	Available only to students enrolled in the B.Sc. Honours Medicine programme.			
Planned timetable:	To be arranged.			
This module is delivered in small group format, and runs in parallel with the student selected module MD4002 in the second semester. Over the semester individual student contact hours are 25 delivered in 5 cycles. Each student attends for one full day every two weeks. The morning is divided into three parts: integrated clinical scenarios, and a combination of two of the following; a revision tutorial, workshop or skills practical. The afternoon is divided into two parts: feedback and a further session which may be a tutorial, workshop or practical. The feedback session enables students to improve their performance and also includes discussion relating to the simulated cases. New advanced skills are introduced to stimulate clinical development. Skills include ABCDE approach to patient management, breast examination, and cannulation. Clinical decision making and problem reasoning workshops are designed to develop reasoning powers. This series of revision topics relate to patient investigations such as rhythm recognition, haematology, clinical chemistry and ECG. Anatomy relating to clinical examination and imaging is also reviewed. Revisiting these topics in a spiral curriculum reinforces areas previously covered.				
Programme module type:	Compulsory for B.Sc Honours Medicine			
Pre-requisite(s):	MD3001 and MD3002			
Learning and teaching methods and delivery:	Weekly contact: 5 hours in 5 cycles over the semester.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, 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

Arabic (AR) modules

AR3401 Media Arabic 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm			
This module consolidates the grammar and vocabulary learned during Sub-Honours by introducing students to the language of the Arabic media through texts, audio and audio-visual material. Students will be offered basic training in comprehension and translation of contemporary Media Arabic in both directions, and will also compose their own written material and give oral presentations in Arabic.				
Programme module type:	Compulsory module for Arabic			
Anti-requisite(s):	AR3201			
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials 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: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Module Co-ordinator:	Dr F Caiani			
Lecturer(s)/Tutor(s):	Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse			

AR3402 Media Arabic 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm			
This module consolidates the grammar and vocabulary learned during Junior Honours semester 1, through the systematic analysis of the language of the Arabic media. Contemporary texts, audio and audio-visual material will be used. Students will be offered basic training in comprehension and translation of Media Arabic in both directions, and will also compose their own written material and give oral presentations in Arabic.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	AR3401 or Study Abroad	Anti-requisite(s):	AR3201	
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials 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: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Module Co-ordinator:	Dr F Caiani			
Lecturer(s)/Tutor(s):	Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse			

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AR3421 Arabic Short Stories 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am 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 literary translation, in the context of a background understanding of the literary and cultural dimensions of the texts.				
Programme module type:	Optional for Arabic			
Anti-requisite(s):	AR3206			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR3422 Arabic Short Stories 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am 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 literary translation, in the context of a background understanding of the literary and cultural dimensions of the texts.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR3401 or study abroad in Semester 1	Anti-requisite(s):	AR3206	
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

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AR3461 Key Texts in Classical Arabic Literature and Culture 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm Mon, 2.00 pm Thu.			
The module aims to enable students to understand the development and terminology of aspects of classical Arabic scholarship, to help them understand the structures that underpin the Arabic language, and to support them through encounters with a representative selection of important classical Arabic sources.				
Programme module type:	Optional for Arabic			
Anti-requisite(s):	AR3250			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr O Elmaz			

AR3462 Key Texts in Classical Arabic Literature and Culture 2				
SCOTCAT Credits:	15		Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm Mon, 2.00 pm Thu.			
The module aims to enable students to understand the development and terminology of aspects of classical Arabic scholarship, to help them understand the structures that underpin the Arabic language, and to support them through encounters with a representative selection of important classical Arabic sources.				
Programme module type:	Optional for Arabic			
Anti-requisite(s):	AR3250			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr O Elmaz			

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AR4401 Advanced Arabic 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 or 4.00 pm Mon, 3.00 or 4.00 pm Thu.			
This module will build upon the skills gained in the third year modules in Arabic. Emphasis will be placed on Arabic grammar, translation into and out of Arabic and free composition in Arabic. Students will also give oral presentations in Arabic. A variety of modern and contemporary 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):	AR3402 or study abroad	Anti-requisite(s):	AR4205	
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 = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical (Oral Presentation) = 10%, Coursework = 30%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR4402 Advanced Arabic 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	3.00 pm or 4.00 pm Mon, 3.00 pm or 4.00 pm Thu.			
This module will build upon the skills gained in AR4401. Emphasis will be placed on Arabic grammar, translation into and out of Arabic and free composition in Arabic. Students will also give oral presentations in Arabic. A variety of modern and contemporary 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):	AR4401	Anti-requisite(s):	AR4205	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical (Oral Presentation) = 10%, Coursework = 30%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham, Dr F Caiani, Ms D Al Afranji/ Mr M Whitehouse			

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AR4421 Exile and Identity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	4.00 pm Tue, 2.00 pm Thu.			
This module will study linguistic, literary and cultural aspects of recent Arabic fiction, with readings from short stories mainly written by men and women writers from the Gulf and North Africa. The emphasis will be on the treatment of exile and identity within fiction mainly from the cultural margins of the Arab world, with secondary readings in English and class discussion.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR3402	Anti-requisite(s):	AR4232	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 30%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR4422 Novellas				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	4.00 pm Tue, 2.00 pm Thu.			
This module will study linguistic, literary and cultural aspects of modern Arabic fiction, with readings in Arabic from novellas written in the second half of the twentieth century, supplemented by readings in English from novellas and short stories by the same authors. Students will be required to translate passages of text and comment on difficulties in literary translation and to analyse literary and cultural dimensions of the texts.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR4401	Anti-requisite(s):	AR4235	
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

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AR4461 Classical Arabic Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Mon, 11.00 am Thu.			
The module aims to enable students to understand the development of genres and motifs in classical Arabic poetry and some of the principles of classical Arabic literary criticism. During the semester students will study selected texts and will develop an understanding of how the structures of Arabic grammar and the semantics of Arabic vocabulary work in a variety of poetic genres.				
Programme module type:	Optional for Arabic			
Anti-requisite(s):	AR4251			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr O Elmaz			

AR4462 Classical Arabic Prose				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon, 11.00 am Thu.			
The module aims to enable students to understand the development of genres and motifs in classical Arabic prose, as well as some principles of classical Arabic literary criticism. During the semester students will study a variety of classical Arabic prose texts and will develop an understanding of how the structures of Arabic grammar and the semantics of Arabic vocabulary work in a variety of literary genres.				
Programme module type:	Optional for Arabic.			
Anti-requisite(s):	AR4251			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr O Elmaz			

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AR4999 Dissertation in Arabic Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
A dissertation of about 10,000 words on an approved topic in Arabic and Middle East Studies, supervised by an appropriate member of staff.				
Programme module type:	Optional for Arabic			
Anti-requisite(s):	A dissertation in another subject.			
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			

Comparative Literature (CO) modules

CO3001 Issues in Comparative Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
The module will allow students to reach their own definitions of the discipline of Comparative Literature for the first time in their degree. Four key areas in Comparative Literature will be addressed: A) Influence and Reception; B) Literature that Compares; C) Literature on Screen; and, D) World Literature. The course will give students the opportunity to improve their essay writing through a reflective learning log and coursework essay.				
Programme module type:	Compulsory module for Comparative Literature			
Pre-requisite(s):	CO2001 and CO2002			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Finer			
Lecturer(s)/Tutor(s):	Team taught			

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CO3002 Found in Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This is a comparative, interdisciplinary module, which explores the importance of translation in the field of comparative literature as well as the concept of cultural translation. Students will have as compulsory reading a range of chapters from theoretical works on translation and comparative literature. The module will offer a number of texts in translation (different genres, periods and national literatures), along with a theoretical introduction. The three main areas of study are (i) translation issues (as they relate to different genres, periods, cultures and disciplines), (ii) literary translation and (iii) cultural translation.</p>				
Programme module type:	Compulsory for Comparative Literature			
Pre-requisite(s):	CO3001			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr E Bond			
Lecturer(s)/Tutor(s):	Team taught			

CO3020 Cultural Memory and Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module introduces students to theories and examples of the creation of cultural memory in literature. Concepts such as communicative and collective memory will be discussed using three case studies, each exploring a particular ethnic, national or political cultural memory traced through literary and filmic texts as well as archival material and lieux de mémoire. Students will develop skills acquired during the first two years of Comparative Literature by applying a critical, analytical approach to these sources, encouraging them to recognize and interpret shifts, fault lines and conflicts within cultural memory from a trans-national perspective.</p>				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Lawson			
Lecturer(s)/Tutor(s):	Team taught			

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CO3021 Crossing the Mediterranean				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>The Mediterranean is often seen as a space which separates the cultures of the three continents which frame it but it is also regarded as a space of rich cultural exchange. This module explores a range of literary and film texts which foreground both the conflictual aspects of the divide, and the sense that the multicultural space of the Mediterranean offers a prism through which to understand the cultural diversity brought about by global mobility. All of the texts studied call into question familiar ideas about national cultures and belonging. The module looks at how culture crosses borders and how it is changed in the process. It looks at the effects of conflict and encounter on personal and cultural identities in transition.</p>				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D Duncan			
Lecturer(s)/Tutor(s):	Team taught			

CO4001 Literature and History				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Planned timetable:	To be arranged.			
<p>This module is concerned with the relationship between history and literature and the manner in which the past has been depicted and reconstructed in fictional and non-fictional texts from different parts of the world, adopting a comparative perspective. The module focuses on a combination of primary texts (novels and plays by authors such as Charles Dickens, Alessandro Manzoni, Leo Tolstoy, Pedro Calderón de la Barca, Friedrich Schiller, Pierre Corneille, Patrick Susekind, Carlos Fuentes, and Gabriel García Márquez) and theoretical models such as those elaborated in Alessandro Manzoni's 'On the historical novel', Georg Lukács, 'The Historical Novel', and Hayden White, 'The Content of the Form: Narrative Discourse and Historical Representation'. Its aim is to study a representative and canonical range of fictional works from a number of European and non-European literatures concerned with representing the historical past, applying the theoretical models analysed in the first three weeks of the module.</p>				
Programme module type:	Compulsory module for Comparative Literature			
Pre-requisite(s):	CO3001, CO3002			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof W Fowler			
Lecturer(s)/Tutor(s):	Team taught			

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CO4002 The Literary Canon				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Planned timetable:	To be arranged.			
Combining a theoretical framework with a number of case studies, this module will introduce students to the history and changing conceptions of the literary canon and its construction, exploring questions such as 'what do we mean by a "classic" and who decides?'; 'why do some texts survive whilst others do not?'; 'what different factors - e.g. educational and other institutions, the material conditions of production, reception and distribution, the politics of reading and writing, contemporary technologies - affect the formation of the canon in different periods and different countries?' A range of theories of canon formation will be discussed, ranging from humanist conservatism to liberal pluralism to sociological empiricism.				
Programme module type:	Compulsory for Comparative Literature			
Pre-requisite(s):	CO4001			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof M Hutton			
Lecturer(s)/Tutor(s):	Team taught			

CO4020 Literature and the Bible				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/15			
Planned timetable:	To be arranged.			
This module will build on the knowledge of translation issues gained in CO3002 and apply it to arguable the most significant source for the European and American literary traditions - the Bible. Conceiving the relationship between individual authors and the biblical sources on which they draw as dynamic and symbiotic, it will analyse the role assumed by the Bible in the work of authors from different linguistic traditions. Its central concern is to give students the conceptual tools necessary to interpret the influence of this religious text, or collection of texts, in works that depart from canonical articulation or sanction, and to chart the historical development of its literary representation to the present day.				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Team taught			

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CO4021 Autobiography and the Visual Arts				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Planned timetable:	To be arranged.			
<p>By looking at the incorporation of visual arts in autobiography, this module aims to explore some of the issues central to the writing of the self and the process of self-reflection. The interaction between visual arts (painting, photography and cinema) and autobiography contributes to the reflection on how the self can be 'narrated'; to the merging of the public and private spheres; and to the creation of hybrid and innovative texts and pieces. Other aspects discussed in this module will include the use of painting, photography, and cinema as metaphors of life writing, and the gendered aspects of these visual modes of writing the self.</p> <p>Texts studied may include travel diaries of painters (Gauguin, Noa Noa: Gauguin's Tahiti); autobiographical films (Agnès Varda, The Beaches of Agnès); hybrid autobiographical texts incorporating images (André Breton, Nadja); autobiographical texts by women artists (Tracey Emin, Strangeland); texts reflecting on theory and practice of 'photo-biography' (Barthes, Roland Barthes by Roland Barthes and Camera Lucida); and artistic projects framing the self as art work (Sophie Calle, Double Game; Andy Warhol, The Philosophy of Andy Warhol: from A to B and Back Again).</p>				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Hugueny-Léger			
Lecturer(s)/Tutor(s):	Team taught			

CO4022 Illness and Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module will explore the wide range of functions and representations of illness and disease in a variety of European (French, English, German, Italian and Russian) literary and theoretical texts from the 14th to the 20th century, and how its metaphorical employment can reflect changing beliefs related to individual identity, socio-cultural codes, narrative construction and the possibilities and limitations of language itself.</p> <p>Starting with a brief theoretical overview of modern canonical writings on illness by Virginia Woolf, Susan Sontag and Elaine Scarry which will provide an introduction to common tropes of mythologizing and metaphorizing illness, as well as the linguistic challenges to its representation, we will move on to focused thematic explorations of disease, employing close comparative readings of texts to reflect upon and discuss three broad topics: early plague narratives; the aesthetics of Romantic illness and the idea of illness as enlightenment; and the modern and postmodern employment of disease to subvert canonical representations of time and language in literature.</p>				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr E Bond			
Lecturer(s)/Tutor(s):	Team taught			

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CO4023 Slavery and Atlantic Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2014/5			
Planned timetable:	To be arranged.			
<p>This module traces the stories and trajectories shaped by one of the most disturbing institutions in the history of the modern world: slavery. Slavery linked together the edges of the Atlantic space, thus creating a new, global geography which we will explore from different perspectives by studying a broad range of mostly literary testimonies. Typically texts may include <i>The Interesting Narrative of the Life of Olaudah Equiano</i> (1789); C.E. Boniface, <i>Account of the shipwreck of the French vessel the Eole on the coast of Kaffreria in April 1829</i>; Miguel Barnet/ Esteban Montejo, <i>Biography of a Runaway Slave</i> (1966) and Patrick Chamoiseau, <i>Texaco</i> (1992).</p>				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr H Partzsch			
Lecturer(s)/Tutor(s):	Team taught			

CO4024 Performing Early-Modern Sexualities				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Early-modern perceptions of gender and sexuality were based less on a series of binary opposites (man/woman, male/female, masculine/feminine) than on a fluid continuum. The literature of the period demonstrates a particular interest in the performative nature of sexuality and gender, featuring male and female cross-dressers, bisexual clergymen, individuals of indeterminate sex and so on. Primary texts encompassing a variety of cultures and genres by male and female authors will be studied; these might include Veronica Franco's <i>Terze rime</i>, Catalina Erauso's <i>The Lieutenant Nun</i>, <i>The Transvestite Memoirs of the Abbé de Choisy</i>, and John Lyly's <i>Gallathea</i>. Some theory will also be studied, including short excerpts from Butler, Foucault and Laqueur.</p>				
Programme module type:	Optional for Comparative Literature			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J Prest			
Lecturer(s)/Tutor(s):	Team taught			

CO4025 Representing the Holocaust - Differently				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2014/5			
Planned timetable:	To be arranged.			
<p>As Adorno's (often misrepresented) words 'To write poetry after Auschwitz is barbaric' remind us, representations of the Holocaust, whether in the form of non-fictional eye-witness testimonial accounts or so-called 'high' literary genres, inevitably raise both aesthetic and ethical issues. This is perhaps even more the case when the genres in question form part of 'popular culture' and / or deliberately challenge moral and artistic boundaries. This module sets out to analyse a range of such texts: films, for example, which reposition victim / perpetrator boundaries or use humor; graphic novels representing Jews as mice; detective fiction seeking the Final Solution; seemingly irreverent versions of, or spin-offs from, Anne Frank's diary. By the end of the module you should have reconsidered your views of what constitutes a 'good' -- morally, aesthetically -- representation of the Holocaust.</p>				
Programme module type:	Optional for Comparative Literature			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof M-A Hutton			
Lecturer(s)/Tutor(s):	Team taught			

French (FR) modules

FR3001 French Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon.			
<p>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.</p>				
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr E Herdman			

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FR3002 French Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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. Compulsory except for those abroad on an agreed exchange programme in second semester of Junior Honours.			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr E Herdman			

FR3021 An Introduction to the French Classical Period				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 1.5 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J S O Carson			

FR3025 From the Sublime to the Ridiculous: Nineteenth-Century French Theatre				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module will investigate the development of theatre in nineteenth-century France through the study of important texts by major authors, taking in the most important trends of the genre's development: Romantic period, historical drama, farce, realism and symbolism. The plays will be studied within the socio-historical context of nineteenth-century France, as well as aesthetic objects in their own right.				
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D Evans			
Lecturer(s)/Tutor(s):	Dr D Evans and Dr J Carson			

FR3047 Literature of Ideas from Descartes to Rousseau 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module studies the literature and history of ideas in seventeenth-century France. It will focus on such issues as the threat to religious orthodoxy, optimism and pessimism, amour-propre and the beginnings of opposition to the political regime of Louis XIV. Three or four texts will be studied chosen from a range of authors including Descartes, Saint-Evremond, Pascal, La Rochefoucauld and La Bruyere. This module complements others available in the Department dealing with the literature and theatre of seventeenth-century France.				
Programme module type:	Optional for all M.A. degrees involving French Related module: FR4148			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D J Culpin			
Lecturer(s)/Tutor(s):	Dr D J Culpin			

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FR3059 From One War to Another: French Politics, Culture and Society 1914 - 1945 (1)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module will look at the upheavals in French politics and culture from the First World War to the early Thirties. Through the examination of literary texts, we will study total war and its consequences. Set texts include: Ian Higgins (ed.), Anthology of First World War Poetry and Louis-Ferdinand Celine, Voyage au bout de la nuit.				
Programme module type:	Related module:FR4160			
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: 2-Hour Written Examination = 60%, Coursework = 40%			

FR3078 Writing the Self in Twentieth-Century French Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module explores theories relating to autobiography and écriture de soi as well as a variety of autobiographical practices reflecting significant trends in twentieth-century French literature. Students will read texts by major authors (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.				
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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
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:	2
Academic year:	2013/4			
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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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			
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:	2
Academic year:	2013/4			
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.			
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			
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:	2
Academic year:	2013/4			
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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
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
Academic year:	2013/4			
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: 1.5 hours 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
Academic year:	2013/4			
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: 1.5 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D E Evans			
Lecturer(s)/Tutor(s):	Dr D E Evans			

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FR4105 Communication Skills in French 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr E S M Hugueny-Léger			

FR4106 Communication Skills in French 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
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:	1
Academic year:	2013/4			
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: 1.5 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr E Herdman			
Lecturer(s)/Tutor(s):	Dr E Herdman			

FR4122 Literature of the French Enlightenment				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module provides an introduction to the literature of eighteenth-century France. Texts are studied within the context of the literary and intellectual preoccupations of the period. Prescribed authors may include writers such as Marivaux, Diderot, Voltaire and Beaumarchais.</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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr D J Culpin			
Lecturer(s)/Tutor(s):	Dr D J Culpin			

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FR4149 Aspects of Gender in Seventeenth-Century Theatre				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J T Prest			

FR4160 From One War to Another: French Politics, Culture and Society 1914 - 1945 (2)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module will look at the rise of Communism and Fascism, Vichy France, the Resistance and laipuration. Set texts include: Andri Malraux, <i>La Condition humaine</i>, Georges Bataille, <i>Le Bleu du ciel</i>, Ian Higgins (ed.), <i>Anthology of Second World War Poetry</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: 2-hour Examination = 60%, Continuous Assessment = 40%,			

FR4175 The 'nouveau roman': Undoing the Novel				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module will investigate the nouveau roman, a French literary movement of the 1950s. We will examine in detail three novels by Alain Robbe-Grillet, Nathalie Sarraute and Marguerite Duras by exploring the dismantling of conventional notions of character and plot in these works as well as the crucial question of narrative style. In particular, we will consider the absence of the omniscient author, the multiplicity of perspectives and the way in which readers participate in the construction of meaning. Ultimately, we will seek to place the nouveau roman in its literary context, asking whether it was as new as it claimed to be.</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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr S Bootle			

FR4180 Modern French Thought				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module will focus on French thought and its developments from the 1940s onwards. The main critical and intellectual currents will be studied, such as existentialism, structuralism, semiology, post-modernism in relation to modernism, and feminism. Texts by key authors of the second half of the twentieth century (for example Sartre, Barthes, Kristeva, Foucault, Lyotard) will be analysed to show how the notions of language, knowledge and power as well as gender issues have evolved, how they are connected and how they are currently interpreted on the French contemporary literary and intellectual scene.</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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr E Laügt			
Lecturer(s)/Tutor(s):	Dr E Laügt			

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FR4198 Dissertation on a French Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 Chair 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 or a 30-credit dissertation in another subject			
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 D E Evans			

FR4199 Long Dissertation on a French Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 Chair 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, or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	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:	Dr D E Evans			

FR5810 French Science Project Dissertation			
SCOTCAT Credits:	30	SCQF Level 11	Semester: Whole Year
Academic year:	2013/4		
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		
Co-requisite(s):	CH4441 or CH4442	Anti-requisite(s):	FR3101, FR3103, FR3809, FR4809
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
Academic year:	2013/4			
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			
Pre-requisite(s):	Honours entry			
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: 1-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
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
Academic year:	2013/4			
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			
Pre-requisite(s):	GM3005			
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: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Frau I Hartung			

GM3047 The Literature of Friedrich Nietzsche				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
Planned timetable:	N/A			
<p>There are few German writers whose name is as instantly recognizable, for good or ill, as Friedrich Nietzsche. Nietzsche's enduring appeal is due, in large measure, to his skill as a stylist and to the literariness of his work. In this module, students will analyse key works by Nietzsche from a literary point of view, treating stylistic features, recurrent themes and symbols, and structural patterns. Though a unique figure in many ways, neither Nietzsche nor his writing can be disentangled from their time; students will thus be led to consider correspondences and differences between Nietzsche and other nineteenth-century authors.</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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M White			

GM3070 Heroism in Modern German Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module aims to give insight into Prussian-German history through an examination of literary discourses on heroism. It is often in tales of heroism that national identity is created. The texts studied in this module cover the history of Prussia from the triumphs of Frederick the Great to the end of Prussia as a state at the end of the Second World War. Texts from a variety of periods - such as Enlightenment, Romanticism, Realism and Modernism - will be studied.</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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M Gratzke			
Lecturer(s)/Tutor(s):	Dr M Gratzke			

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GM3071 Recent German Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged			
The module involves the study of a representative selection of works of recently published German literature. The set texts have appeared since the mid 1990's and range from pop literature of the day to classics of tomorrow. A few prose pieces, one collection of poetry and one play will exemplify major trends in present-day German writing. The texts studied in this module offer insights into the fabric of language and modern life as it unfolds.				
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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M Gratzke			
Lecturer(s)/Tutor(s):	Dr M Gratzke			

GM3075 Thomas Mann – Doktor Faustus				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	TBC			
This module affords students the chance to study a major novel of post-war Germany, Thomas Mann's Doktor Faustus, and through this novel to gain a larger knowledge of Mann's work as a whole. In a series of seminars students will be guided through their reading of the work. These reading seminars will be interspersed with lectures and seminars on key themes in Mann's oeuvre and life, from music to his political development. In addition to the main text, students will examine other genres (essays, letters) and gain broader insights into the historical situation of post-war Germany.				
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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M White			

GM3080 Grammatical Rules and Lexical Exceptions in Modern German				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Single and Joint Honours German			
Anti-requisite(s):	LI3001, ML3201			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

GM3081 Words and their Functions in Modern German				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module focuses on vocabulary in modern German (in contrast to GM3080, which focuses on grammar), on words and their categorisation, structure and functions. We begin by looking at the functional (as opposed to structural) approach to language, which sees language as action and effects rather than as a static grammar + lexicon. We consider three approaches to the categorization of German vocabulary, i.e. the parts of speech: categorisation by syntax, by morphology, and by semantics. Two areas of language and politics are discussed: feminist linguistics, and Nukespeak. Finally, we examine word formation in German, covering compounds, prefixes, suffixes, conversion, and morphological transparency versus opacity.				
Programme module type:	Optional for Single and Joint Honours German			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

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GM3088 Travel Writing in German since 1990				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
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 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

GM3089 The German Gothic, (1800 - 2000)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	TBC			
<p>The literary mode of the Gothic is well established in English Studies and there is growing interest in its internationality. Gothic fiction is seen as transgressive, especially in the way it crosses borders, but also in its challenge to standards of taste. This module will explore the development and international reception of the German Gothic from the 1790s heyday of the Schauerroman via the Gothic undercurrents in modernism to recent embodiments of the historical uncanny in post-Wall novels. What role does the Gothic play in processes of cultural transfer? How does it relate to literary canons, including the modernist canon? How do Gothic motifs and tropes shape early cinema? These and other questions will be addressed in an exploration of what has, since the Enlightenment, been a vital mode of European culture.</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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	A Cusack			

GM3101 German Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2013/4			
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
Academic year:	2013/4			
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			
	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:	Dr C Lawson			

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GM4007 Translation Methodology (German / English)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	20145			
Planned timetable:	To be arranged.			
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.				
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: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M White			
Lecturer(s)/Tutor(s):	Dr M White			

GM4046 Mediaeval Things				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Planned timetable:	To be arranged.			
One of humanity's fundamental assumptions is that we self-determined humans are superior to inanimate objects. Mediaeval literature, however, is full of things that have powers over humans and act like them: they can speak, feel, move, have names and biographies: swords, relics, books, stones, coats and others. This module investigates the supernatural and natural powers of things in a range of texts, such as romances. We will also gain an overview of the recent 'thing theories' trying to understand the continued agency of objects from a variety of postmodern perspectives, and compare them to the mediaeval conceptions.				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 surgery hour and occasional seminars throughout the semester.			
	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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr B Bildhauer			
Lecturer(s)/Tutor(s):	Dr B Bildhauer			

GM4049 Language and Ideology in the GDR and West Germany from 1949 - 1989				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
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: 2 seminars 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

GM4070 Writing Nature: German Environmental Thought, 1800 - 2000				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	TBC			
<p>Environmental thought gathered momentum in the final quarter of the twentieth century impelled by the experience of the Oil Crisis of the 1970s and the publication of the UN Human Environment Report The Limits of Growth (1972). Faced with mounting evidence of scarce resources and environmental damage, industrialized societies were compelled to confront their assumptions about growth and development. Nowhere was this confrontation more intense than in the two Germanies, where environmental ideas chimed with a tradition of cultural criticism that stretched back to Weimar Classicism and to the Naturphilosophie of the German Romantics. In this module we shall study the intellectual sources of German environmentalism, paying particular attention to the role of literature in mediating representations of nature and human agency. How significant are representations of nature for our relationship to the environment? What role does literature have to play in communicating and reflecting upon environmental ideas? What are environmental aesthetics and environmental history? This module seeks to provide answers to these and other questions vital to understanding the pivotal function of culture in promoting the 'necessary unity' of mind and nature (Bateson).</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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr A Cusack			

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GM4071 Shakespeare: The German Catalyst				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	TBC			
<p>This module traces the unique story of Shakespeare's role in German literary and cultural life from the eighteenth to the twentieth century. Shakespeare is the external point of reference for Enlightenment debate, the iconoclastic example for irreverent Stümer und Dränger. Through the mature criticism and translation of the Classical-Romantic age, Shakespeare achieved national status as a symbol of the German spirit and this role was secured in 1864 with the founding of the world's oldest Shakespeare Society – in Weimar! Students will follow this evolving reception through a range of genres, such as critical essays, plays, and German Shakespeare translations. Authors include Lessing, Goethe, Schiller, Schlegel and Fontane, among others.</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: 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M White			

GM4092 East German Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>The end of the GDR also saw the closure of the East German Film studios, DEFA, threatening its films with commercial oblivion. However, since reunification the many culturally and artistically significant films made under DEFA have increasingly attracted critical attention. This module will consider a number of these films spanning four decades in order to explore the way in which they navigate the political and censorial climate of the GDR and such issues as: East German cultural identity, the politics of the ordinary, the East German realist aesthetic, gender identities and feminism, the conflict between the individual and the state and the role of the artist in the GDR. We conclude the course by considering a film produced post reunification.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 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: 2-hour Written Examination = 60%, Coursework = 40%			

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GM4094 The German Long Story, 1880 - 1941				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
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: 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%, 2-hour Written Examination = 60%			
Module Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

GM4095 Rethinking German Realism 1845 - 1898				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Planned timetable:	To be arranged.			
<p>What happened in German literature between the death of Goethe and the appearance of Thomas Mann? What were the Germans doing when Flaubert and Tolstoy were writing? Often labelled inward-looking and provincial, German Realists were critical artists producing works of real beauty which reflect on the role of literature in the modern age. This module explores the aims and practices of German-speaking authors from 1845 - 1898. Students will examine theoretical writings alongside a range of representative literary texts (poetry, novels and novellas) from German and Austrian authors such as Stifter, Storm and Fontane. Students will develop their own definitions of Realism and reflect on the value of this movement for modern readers.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Learning and teaching methods and delivery:	Weekly contact: 1 or 2 hours of seminars each week and occasional lectures 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Mr M White			

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GM4098 Dissertation on German Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 Chair 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):	GM4099 or a 30-credit dissertation in another subject			
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 M Gratzke			

GM4099 Long Dissertation on German Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	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:	Dr C Beedham			

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GM4105 German Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am or 3.00 pm Mon and 11.00 am or 3.00 pm Thu.			
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.				
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 = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 30%, Oral Examination = 30%, Coursework = 40%			
Module Co-ordinator:	Dr A Cusack			

GM4106 German Language 4				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am or 3.00 pm Mon; 11.00 am or 3.00 pm Thu.			
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.				
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 I Hartung			

Italian (IT) modules

IT3001 Italian Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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
Academic year:	2013/4			
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: 2-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
Module Co-ordinator:	Dr F Lacaita			
Lecturer(s)/Tutor(s):	Dr F Lacaita			

IT3012 Fourteenth Century Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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			

IT3037 Contemporary Italian Woman Writers				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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			

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IT3038 Primo Levi				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Primo Levi is probably the best-known and most-widely read Italian writer of the twentieth-century. Outside of Italy, Levi is seen as perhaps the major voice in Holocaust writing. He was the author of a rich body of work that was indelibly marked by his experience of Auschwitz, but also by his professional expertise as a scientist and by the secular Piedmontese Jewish tradition in which he grew up. This module will offer students an introduction to Levi's work focussing on his major thematic and ethical concerns and examining how he deals with them in different literary genres. The unit will look both at Levi's critical reception, but also at the response of one Italian film-maker to Levi's <i>La tregua</i> (1963) in which he recounts his journey back to Italy on his release from the concentration camp. The unit will give students a comprehensive introduction to the work of this major writer and the variety of genres in which he wrote. It will situate his work in the context of Holocaust memorial culture in Italy and elsewhere.</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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework 100%			
Module Co-ordinator:	Prof D Duncan			
Lecturer(s)/Tutor(s):	Prof D Duncan			

IT3101 Italian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2013/4			
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.			
	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:	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
Academic year:	2013/4			
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.	Anti-requisite(s):	IT3101 or Erasmus exchange in Italy.	
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 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
Academic year:	2013/4			
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) weekly 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, 1 written class and 1 surgery hour per week.			
	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
Academic year:	2013/4			
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) weekly 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, 1 written class and 1 surgery hour per week.			
	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: 2.5-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

IT4012 Dante Alighieri				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R P Wilson			
Lecturer(s)/Tutor(s):	Dr R P Wilson			

IT4016 Twentieth-Century Italian Canonical and Anti-Canonical Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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 Belestrianin 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R M Riccobono			
Lecturer(s)/Tutor(s):	Dr R M Riccobono			

IT4026 Fascism and Film				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Mussolini famously declared that cinema was Fascism's most powerful weapon. His opponents often decried the propagandist quality of much of the film-making which took place under the regime. This module examines the Italian film industry between 1930 (the arrival of talkies in Italy) and 1943 (the fall of the regime). It will study the range of films produced under Fascism - comedies, melodrama, historical epics, documentary - to uncover the complexity of the links between Fascism and film. The final section of the module will look at how Fascism has been represented in film since the War.</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: 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:	Prof D Duncan			
Lecturer(s)/Tutor(s):	Prof D Duncan			

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IT4027 Migration and Transculturality in New Italian Narratives				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module Looks at texts which deal with migration, postcolonial and transcultural issues ia a way of enriching, challenging and sometimes subverting national-bound ideas of cultural belonging and literary canons. This module will focus on narratives written by migrants and second generation authors (including Pap Khouma, Amara Lakhous, Ornela Vorpsi, Anilda Ibrahimi, Cristina Ali Farah and Igiaba Scego) and attempt to draw definitions of what is a new emerging genre of Italian literature.				
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: 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 E Bond			
Lecturer(s)/Tutor(s):	Dr E Bond			

IT4097 20-Credit Dissertation in Italian				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Final year of the Italian and Psychology Honours Programme.			
Planned timetable:	To be arranged.			
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/)				
Programme module type:	Optional for Italian and Psychology			
Pre-requisite(s):	Entry into Joint Honours Degree in Italian and Psychology (with BPS recognition)	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			

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IT4098 Dissertation on an Italian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 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/)				
Programme module type:	Either IT4098 or IT4099 is compulsory for Single Honours Italian			
Anti-requisite(s):	IT4097, IT4099 or 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	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:	Head of Italian Department			

IT4099 Long Dissertation on an Italian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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, or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: To be arranged.			
	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:	Head of Italian Department			

Modern Languages (ML) modules

ML3105 Modern Languages Integrated Year Abroad: Semester 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
<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			

ML3106 Modern Languages Integrated Year Abroad: Semester 2				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
<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			
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:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

Persian (PR) modules

PR3001 Higher Intermediate Persian 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	4.00pm Mon and Thurs			
This is a core language module for all students of Persian in the first year of the Honours programme. It builds on the work covered in the first and second level Persian Language modules. The module will include translation from and into Persian; analysis of more advanced texts; practice in reading and discussing texts; and more advanced Persian conversation. By the end of the course the students are expected to be competent in:				
<ul style="list-style-type: none"> •Conversation at a higher intermediate to advanced level on a variety of topics (modern events and Iranian culture) •The discussion of a range of specific topics; for example, history, contemporary politics and literature. •Reading and translating modern standard Persian texts from newspapers, short stories, etc. 				
Programme module type:	Compulsory for Persian			
Pre-requisite(s):	PR2001 for 2013, PR2002 from 2014	Required for:	PR3002	
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Examination = 10%, Coursework = 30%			
Module Co-ordinator:	TBC			

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PR3002 Higher Intermediate Persian 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	4.00pm Mon and Thurs			
<p>This is a core language module for all students of Persian in the first year of the Honours programme. It builds on the work covered in PR3001. The module will include translation from and into Persian; analysis of more advanced texts; practice in reading and discussing texts; and more advanced Persian conversation. By the end of the course the students are expected to be competent in:</p> <ul style="list-style-type: none"> •Conversation at an higher intermediate to advance level on a variety of topics (current events and Iranian culture) •The discussion of a range of specific topics. •Reading and translating modern standard Persian literary texts. 				
Programme module type:	Compulsory for Persian			
Pre-requisite(s):	PR3001			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Oral Presentation = 10%, Coursework = 30%			
Module Co-ordinator:	TBC			

PR3020 Key Texts in Modern Persian Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Students will learn about key 20th century authors through reading biographies and critical writing in Persian and English. They will also read, translate and discuss at least one sample of writing by each of these authors. Where short stories are selected, the whole text will be discussed, but in the case of novels a short passage will be selected for the students to work on. The module is designed to improve and broaden students' knowledge of Persian 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 Persian on related subject matters. This module will also address the contribution of these literary works to events and trends in contemporary Iranian society. By the end of the course the students are expected to:</p> <ul style="list-style-type: none"> •Have learnt about key Iranian historical events through different writings •Have learnt about different political parties and their ideologies through sample writings •Have gained a more general understanding of contemporary Iranian culture through their study of contemporary Persian texts. 				
Programme module type:	Optional for Persian			
Pre-requisite(s):	PR2001 for 2013, PR2002 from 2014			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	TBC			

PR3021 Modern Iran through Cinema				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module introduces students to the study of cinema as a mode of representation of social history by offering a social overview of cinema in Iran since the 1960s. Looking at films as a mirror reflecting the society, this module will offer a chronological history of Iranian cinema while also addressing changes in Iranian society. Students will be given a reading list to complement the lectures, the contents of which will provide a basis for seminar discussions. There will be one film screening per week accompanying the lectures and students will be encouraged to develop their own critical approach through seminars and discussions.</p>				
Programme module type:	Optional for Persian			
Pre-requisite(s):	Honours entry into Persian, or otherwise with the permission of the Head of School			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 23 hours		Guided independent study: 127 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 Ghorbankarimi			

PR4020 Introduction to Classical Persian Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2014/5			
Availability restrictions:	Entry to Persian honours programme			
Planned timetable:	To be arranged.			
<p>This module will offer students the initial tools needed to read classical Persian poetry. It will teach a basic knowledge and critical understanding of the major genres and themes of classical Persian poetry, in addition to introducing different literary schools instrumental in the development of the Persian literary heritage. Students will learn about the different figures of speech, structures and imagery common to classical Persian poetry through the study of selected texts. Throughout this module students will also learn about the key figures in Persian poetry and read and translate at least one sample work by each of the major Iranian poets. By the end of the course the students are expected to:</p> <ul style="list-style-type: none"> •Be able to recognise and distinguish between the different genres of Persian poetry •Be able to embark on further reading and translating of classical Persian poetry, having studied samples of major Persian poets •Have gained an understanding of Persian classical poetry and different figures of speech, and through these a better general understanding of Iranian culture. 				
Programme module type:	Optional for Persian			
Pre-requisite(s):	PR2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	TBC			

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PR4021 Female Identity in Contemporary Iran				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2014/5			
Availability restrictions:	Entry to Persian honours programme			
Planned timetable:	To be arranged.			
<p>The module offers a chronological overview of the evolution in the representation of female subjects in Iran, focusing on a different topic related to women's identity and the representation of women every week. All these topics will be accompanied by readings that complement the lectures and will form the basis of discussion in tutorials. The topics selected will include photographs of women in the Qajar courts at the turn of the twentieth century, the emergence of the first female poets and writers, female activism in Iran, the role of women in the Islamic Revolution and women filmmakers.</p> <p>•This module aims to offer an overview of the position of women in Iranian society within an historical context, helping students form a deeper understanding of Iranian culture and history.</p>				
Programme module type:	Optional for Persian			
Pre-requisite(s):	Honours entry into Persian, or otherwise with the permission of the Head of School			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 23 hours		Guided independent study: 127 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:	TBC			

Russian (RU) modules

RU3001 Advanced Russian Language 1, Part 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 2-hour Written Examination = 60%, Practical Test = 15% Coursework = 25%			
Module Co-ordinator:	Dr C E Whitehead			

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RU3002 Advanced Russian Language 1, Part 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Module Co-ordinator:	Dr C E Whitehead			

RU3005 Advanced Russian Translation 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Practical Examination = 15%, Coursework = 25%			
Module Co-ordinator:	Dr C E Whitehead			

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RU3022 The Nineteenth-Century Russian Novel				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
The module is designed to build on the knowledge of Russian literature acquired at sub-honours level, and in particular to examine the genre of the novel as it developed in the nineteenth century. The most important writers of the period are studied, including works by Gogol, Turgenev, Dostoevsky and Tolstoy. Historical and literary context is provided through consideration of the Slavophile / Westerniser debate and literary realism.				
Programme module type:	Optional for all degrees involving Russian			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C E Whitehead			
Lecturer(s)/Tutor(s):	Dr C E Whitehead			

RU3026 Russian Modernist Fiction 1900 - 1940				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 counter-tradition of 'modernist' or experimental fiction from Symbolism to 'Oberiu' (The association of Real Art).				
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: Practical Oral Examination = 20%, Coursework = 80%			
Module Co-ordinator:	Dr E Finer			
Lecturer(s)/Tutor(s):	Dr E Finer			

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RU3030 A Special Russian Author of the Twentieth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
The module is designed to build on the knowledge of twentieth-century Russian literature acquired at sub-honours level, with particular concentration on one major author and examining especially those works that are not covered in sub-honours modules. Authors offered may include Mandel'shtam, Maiakovskii, Belyi, Solzhenitsyn, etc. Independent study will form a major element of the module.				
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: 2-hour Written Examination = 60%, Coursework = 40%			

RU3101 Russian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2013/4			
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.			
	Weekly contact: Please Contact 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 Essay = 100%			
Module Co-ordinator:	Dr N Bragina			

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RU3102 Semester of Study in Russia				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	Please Contact Department			
<p>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/)</p>				
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: 2-hour Written Examination = 25%, Dissertation in Russian = 50%, Coursework = 25%			
Module Co-ordinator:	Dr N Bragina			

RU3103 Self-Access Summer in Russia				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Summer
Academic year:	2013/4			
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 N Bragina			

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RU3105 Integrated Year Abroad: Semester of Study in Russia				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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 spend their WIYA year in Russia and one other country. 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 in July. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Russian			
Anti-requisite(s):	RU3101, RU3102, RU3106, ML3105			
Co-requisite(s):	ML3106			
Learning and teaching methods and delivery:	This is a Study Abroad or Work Placement module.			
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr N Bragina			

RU3106 Integrated Year Abroad: Semester of Study in Russia				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 spend their WIYA year in Russia and one other country. 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 in July. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Russian			
Anti-requisite(s):	RU3101, RU3102, ML3106			
Co-requisite(s):	ML3105			
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: Coursework = 100%			
Module Co-ordinator:	Dr N Bragina			

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RU3110 Advanced Russian Translation 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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 , 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: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Module Co-ordinator:	Dr C E Whitehead			

RU4101 Advanced Russian Language 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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, 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: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Module Co-ordinator:	Ms S Booth			
Lecturer(s)/Tutor(s):	Ms S Booth			

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RU4102 Advanced Russian Oral Skills				
SCOTCAT Credits:	0	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 20-minute Practical Oral Examination = 100%			
Module Co-ordinator:	Ms S Booth			

RU4104 Russian Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 20-minute Oral Examination = 40%, Audio-visual Examination = 20%, Coursework = 40%			
Module Co-ordinator:	Ms S Booth			

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RU4130 Issues in Russian Cultural Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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: 1 lecture, 1 seminar and occasional film/video viewing, 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 V Donovan			

RU4131 Russian 'Village Prose': 1953 - 1980				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module is designed to familiarise students with one of the most ideologically important bodies of literature published in the post-Stalin period, Soviet 'Village Prose'. Students will read works by a number of the most influential writers to have contributed to the genre, including Vasilii Belov, Aleksandr Solzhenitsyn, Vasilii Shukshin, and Valentin Rasputin, and engage with the para-literary criticism that emerged around the literary movement. In order to locate the texts within their social and cultural contexts the module will begin with two introductory sessions devoted to the question of urban and rural transformation and its literary treatment. Thereafter, the module will be taught through seminars that examine the themes of urban-rural opposition, village byt, nature, childhood and memory, a number of which will be student-led and introduced by student presentations. Many of the primary texts are available only in Russian and so discussion throughout the module will make reference to the Russian originals.</p>				
Programme module type:	Optional for Russian			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and occasional film/video viewing, 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 V Donovan			

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RU4144 Russian Crime Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Russian crime fiction is a hugely popular genre with the contemporary reading public and yet one which remains relatively critically neglected. This module provides students with the opportunity to study the history of the practice of crime fiction in Russia from c.1860 up to the present day. Students will consider the specific socio-historical context of the birth of the genre in the reform period of the early 1860s, as well as issues of 'high' and 'low' aesthetic genres, before moving on to read a broad range of such works. Discussion throughout will focus on both the literary poetics of the works as well as their relationship to historical situation and debate. Authors to be studied include: Sokolovskii, Panov, Dostoevskii, Shkliarevskii, Chekhov, Sokolova, Shaginian and Akunin.</p>				
Programme module type:	Optional for all degrees involving Russian			
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 = 0%, Practical Examinations = 70%, Coursework = 30%			
	As used by St Andrews: Practical Oral Examination = 30%, Coursework = 70%			
Module Co-ordinator:	Dr C E Whitehead			

RU4198 Dissertation on a Russian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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 or a 30-credit dissertation in another subject			
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 E Whitehead			

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RU4199 Long Dissertation a Russian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
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/)				
Programme module type:	Compulsory for Single Honours Russian			
Anti-requisite(s):	RU4198 or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: Please Contact Department			
	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:	Dr C E Whitehead			

Spanish (SP) modules

SP3001 Spanish Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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, 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 = 100%			
Module Co-ordinator:	Dr J Letrán			

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SP3002 Spanish Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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	Required for:	SP4003, SP4102, SP4103	
Co-requisite(s):	SP3222 for Single, Major and Joint Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 class, 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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr J Letrán			

SP3006 Literary Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am - 10.30 am Wed.			
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.				
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.			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes	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:	Prof G San Román			

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SP3011 History of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
Planned timetable:	2.00 pm - 3.30 pm Fri			
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.				
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.			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 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 K Anipa			

SP3101 Spanish Integrated Year Abroad				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Academic year:	2014/5			
Planned timetable:	Please Contact Department			
<p>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.</p> <p>Formal learning and assessment will be through</p> <p>(i) a supervised project of 4,000 words in the target language chosen in consultation with the module coordinator. To be submitted in May.</p> <p>(ii) a series of short written pieces in the target language in the form of guided responses to questions given and relating to the year abroad experience, totalling approximately 1000 words. To be submitted at various specified points during the year, across both semesters.</p> <p>(iii) a 10-minute oral exam in the target language to be sat upon the student's return to St Andrews after the WIYA year in which the written project will be presented and discussed. .</p>				
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:	Weekly contact: Please Contact Department			
	This is a Work Placement or Study Abroad 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:	Mr B P E Bentley			

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SP3121 Spanish American Literature 1 (Gauchos and Indians)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm - 3.30 pm Tue			
<p>The aim of the module is to study a selection of Spanish American 'Americanist' texts. These are works which are self-consciously Latin American in their depiction of historical or cultural aspects of the continent. The selection is likely to include works dealing with one or more of the following topics: gauchos, Indians, rural Latin America. Three or four texts are studied from a list including Hidalgo's poetry, Facundo, Don Segundo Sombra, Los rmos profundos, Amalia, Doqa Barbara and the rural short story in the River Plate. Apart from general and historical introductions, the course proceeds on the basis of seminar papers given by students.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 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 M Boyd			

SP3123 Spanish Cinema (Topic)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 12.30 pm Wed.			
<p>The aim of the module is to develop critical expertise in and enjoyment of cinema, and through film to gain an understanding of contemporary Spanish cultural and social issues. Linguistic skills will also be developed. The student studies four or five films selected because they represent a topic of cinema studies and an aspect of the Spanish cinema, for example censorship and the Spanish cinema of the Franco dictatorship, (inter)national identity and the Spanish cinema of the eighties, film genre and post-modernism in the Spanish cinema of the nineties.</p>				
Programme module type:	Optional for those who have taken required compulsory modules			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	B P E Bentley			

SP3138 Mexico in the Nineteenth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
Planned timetable:	11.00 am - 12.30 pm Wed.			
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.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 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			

SP3140 Literature and Politics in Spain 1930 - 1939				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
Planned timetable:	To be arranged.			
Based on an understanding of a particularly turbulent period of contemporary Spanish history, students will examine the ways in which writers responded both to specific political events (such as the Moroccan War and the Asturian Revolution) and to pressures to enshrine in their work a particular political affiliation. Through the study of representative texts from the period (prose narrative, poetry and drama), students will look at such issues as the nature of committed literature, the relationship between literature and propaganda, and the aesthetic and ethical implications of writing creatively at the service of a political cause whether it be left- or right-wing.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Module Co-ordinator:	TBC			

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SP3145 Post-1975 Writing in Spain 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00am - 12.30 pm Wed.			
<p>The aim of the module is the close study of a selection of literary texts (works of prose fiction and poetry, in the main) produced in the post-Franco period. These narratives distance themselves from the realist (and experimental) mode of writing that dominated much of the literature produced between 1939 and the 1970s. Instead, they construct subjective worlds that, nevertheless, tend towards a universality of experience and can be seen as part of a process of the gradual 'normalization', Europeanisation, and universalisation of Spanish cultural creations. The selection is likely to include five works written by authors born after the end of the Civil War, such as: A. Bautista, F. Benítez Reyes, J. Cercas, L.A. de Cuenca, L. García Montero, J Marmas, E. Mendoza, A. Muñoz Molina, A. Orejudo, A. Pérez-Reverte, S. Puértolas and A. Rosetti. In the case of poetry, a relevant anthology including some of these authors will be recommended.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken,			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: Seminar and 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 J Letrán			

SP3147 The Art of Subversion in Post-war Spain (1939 - 1975)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2014/5			
Planned timetable:	11.00 AM - 12.30 pm Wed.			
<p>This module is designed to introduce students to the complex and fascinating relations between culture and history within the context of post-Civil War Spain, providing them with an interdisciplinary knowledge of that period. In particular, it aims at exploring the value of film and poetry as modes of cultural resistance to dominant political and ideological discourses. In order to do so, we will be looking at the work of a number of key authors in the history of contemporary Spanish literature (such as Jos? Hierro, Angel Gonzalez, Gloria Fuertes, Jaime Gil de Biedma, and Jos? ?ngel Valente, amongst others) and cinema (typically, L. Garc?a Berlanga, J. A. Bardem, B. Mart?n Patino, V. Erice, C. Saura, etc).</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 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 J Letrán			

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SP3148 The Argentine and Chilean Avant-Garde (1920s-1930's)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	3.00 pm - 4.30 pm Tue.			
<p>This module explores the literary modernisms of two countries of the Southern Cone, Argentina and Chile. It includes close readings of texts by major Latin American authors (Jorge Luis Borges, Oliverio Girondo, Vicente Huidobro, Pablo Neruda). We will study the hybrid nature of these modernisms and identify the different and often opposed aesthetic traditions upon which they are constructed. Also, we will see how Borges projects hybridization as the natural process in the production of culture in Latin America and beyond, thus contesting the distinction between central (European/North American) and peripheral (Latin American) cultures.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 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 E Kefala			

SP3160 Facing the News: Spanish Literature and Society (1888 - 1918)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2014/5			
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.			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
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			

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SP3161 Rebels, Reactionaries, Reformers: Women Writers in Nineteenth-century Spain				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00am - 11.00am Wed.			
<p>This module sets out to study some of the more than 1,000 female writers who participated in the literary culture of nineteenth-century Spain despite the often repeated view that women should limit their activities to the domestic sphere. We will explore how women writers reacted to the romantic exaltation of the individual, how they established themselves on the print market with the help of emerging media such as fashion magazines and how they saw the changing role of women in a society that struggled with the forces of modernisation. The syllabus will typically include texts by authors such as Fernán Caballero, Gertrudis Gómez de Avellaneda, Faustina Sáez de Melgar and Emilia Pardo Bazán.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: Seminar and 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 Partzsch			

SP3221 Language, Conflict and Society				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/14			
Planned timetable:	9.00 am Tuesday 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 Examination = %, Practical Examination = %, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J Letrán			

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SP3222 Language, Love and Loss				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/14			
Planned timetable:	9.00 am Tuesday, 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 Examination = 60%, Practical Examination = 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
Academic year:	2013/4			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue.			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
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
Academic year:	2013/4			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue.			
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: 15-minute Oral Examination = 30%, Aural Comprehension = 30%, Coursework = 40%			
Module Co-ordinator:	Prof G San Román			

SP4008 Contemporary Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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.			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
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 = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof W Fowler			

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SP4012 Linguistic Study of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm - 3.30 pm Fri.			
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.			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
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 K Anipa			

SP4098 Dissertation on a Spanish Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2013/4			
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.			
Anti-requisite(s):	SP4099 or dissertation in another subject			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 3 all-group seminars plus up to 4 individual sessions with your supervisor.			
	Scheduled learning: 7 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:	Prof G San Román			

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SP4099 Long Dissertation on a Spanish Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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 8 individual sessions with your supervisor.			
	Scheduled learning: 11 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:	Prof G San Román			

SP4102 Semester with Study Abroad in Spain				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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, 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:	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 R Fernández Romero			

Modern Languages - Honours Level - 2013/14 - August 2013

SP4103 Residential Project in Spanish-Speaking Country				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	Please Contact Department			
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.				
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			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project = 100%			
Module Co-ordinator:	B P E Bentley			

SP4223 Language, History and Culture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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			

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SP4224 Language, Reality and Illusion				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Prof G San Román			

School of Philosophical, Anthropological & Film Studies

Including: Film Studies, Music, Philosophy and Social Anthropology

Film Studies (FM) modules

FM4099 Film Studies Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2013/4			
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:	Dr D Hanlon			
Lecturer(s)/Tutor(s):	Dr D Hanlon			

FM4109 Film and the Archive				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	2.00 pm - 4.00 pm Tue (screening 5.00pm - 7.00 pm Mon)			
<p>Film and the Archive will provide students with both a theoretical framework for archival research and practical experience in engaging with archival materials. In focusing this module on the local context of cinema in St Andrews, students will have the opportunity to develop their own research projects in one of five topic areas (exhibition, production, cinema culture, audiences, and star culture). Through these local studies, students will develop a broader understanding of film history and culture, learning to correlate their local research to broader developments in film history. Students will develop employable research skills that are useful beyond the specifics of the course. For example, they will have the opportunity to write, present and publish to both academic and general audiences, and will gain a thorough grounding in methodologies relevant for the archival study of cinema.</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 T Rice			
Lecturer(s)/Tutor(s):	Dr T Rice			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

FM4111 The European Crime Film				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon - 2.00 pm Tue			
<p>Crime is differently understood and presented in different historical and cultural situations. Looking at crime in the context of European cinema enables us to consider what is at stake in these differences and how specific cinematic traditions have shaped them and offered them as entertainment. For instance, a focus on the serial killer in European cinema illuminates ways of giving cultural significance to a figure of actual statistical unimportance. It opens up onto issues such as the definition of this form of murder, concepts of narrative (seriality) and explanation, and ideas of serial killing as symptomatic of modernity, humanity or masculinity.</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 Dyer			
Lecturer(s)/Tutor(s):	Prof R Dyer			

FM4112 Images of the Past				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon - 2.00 pm Tues (Screening 7.00 - 9.30 pm Mon)			
<p>Images of the Past considers the role and influence of film as a medium of historical representation and analysis. By exploring the ways historical films shape our concept of the past through the specific languages and codes of the cinema, the module will provide students with a powerful set of tools for analyzing historical representation in film, and for evaluating the role of historical filmmaking in cultural life. Reading will include works from Film Studies and from Historiography, such as texts by Hayden White, Michel de Certeau, Robert A Rosenstone, Marcia Landy, and Natalie Zemon Davis.</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			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

FM4204 Asian Cinemas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Asian Cinemas will explore a diverse range of issues in contemporary cinema through a study of Chinese-language film from mainland China, Hong Kong, Taiwan, the Nanyang, as well as far-flung diasporas. This most exciting area of world cinema will be scrutinised from a variety of angles. The module will start by examining the complexities of bridging different economic realities within the context of a new dynamic Pan-Asian industry, before tracing the shifting global market position, the evolving film cultures, as well as the trajectory of Chinese-language cinemas at the international festival circuit. We will explore popular genres (from Bruce Lee to post-modern martial arts cinema) but also socially-critical films by directors such as Jia Zhang-ke and Edward Yang. By discussing how the different aesthetics created by these cinemas are specific to their contexts, this module questions and challenges the universal applicability of concepts previously developed in film studies.</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 D Iordanova and Prof J-M Frodon			

FM4206 Cinemas of India				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am - 12.00 noon Mon (screening 6.30-10.00pm Thurs)			
<p>This module will go beyond Bollywood and survey the extraordinary range of cinematic production in India since Independence. In addition to classic and contemporary examples of Popular Hindi Cinema ("Bollywood"), we will also study films from other major industries, such as Tamil and Bengali, as well as a range of cinematic practices, such as documentary, avant-garde and state-funded realist cinema. The module will also allow students to explore the various methodologies currently used to study this hugely important cinema (e.g. auteurist, transnational, ethnographic, sociological).</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 Hanlon			
Lecturer(s)/Tutor(s):	Dr D Hanlon			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

FM4207 British Cinemas: Conventions, Subversions, and Outsiders				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am - 12.00 noon Tue (screening 5.00 - 7.00 pm Mon)			
This module approaches British cinema as a site of cultural and formal multiplicity, focusing on its shifting balance between tradition and rebellion, belonging and alienation. The module raises questions about representation and inclusion, as well about formal and narrative strategies. Students will have the opportunity for independent research, by writing a case study of their chosen British star. Weekly topics may include the problematic emergence of queer identities (The Killing of Sister George, Robert Aldrich, 1968), the ambivalent portrayal of British spies and defectors (Another Country, Marek Kaniévská, 1984), British filmmaking outside Britain (The Third Man, Carol Reed, 1949), the modernist mockery of British tradition (The Draughtsman's Contract, Peter Greenaway, 1982), and a British star case study.				
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			
Lecturer(s)/Tutor(s):	Dr E Girelli			

FM4303 Documentary Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	10.00 am - 12.00 noon Tue.			
This module surveys the history of documentary film (technological, stylistic, etc.), while taking up the theoretical debates around cinematic claims to truth and representations of reality. Students will examine how documentary differs from other kinds of filmmaking, how documentaries make 'truth claims', and how these claims influence the ways in which these films are received and circulated. Beginning with the actualities of the Lumiere Brothers, students will be exposed to multiple genres (e.g. ethnographic, civic, cinema verite, experimental, self-reflexive) and filmmakers (e.g. John Grierson, Dziga Vertov, Jean Rouch, Errol Morris) while addressing the variety of arenas (e.g. scientific, civic, commercial) in which documentary has appeared.				
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 L Torchin			
Lecturer(s)/Tutor(s):	Dr L Torchin			

Music (MU) modules

MU3001 Concert Performance			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2013/4		
Planned timetable:	To be arranged.		
<p>This module caters for students aiming to perform to a professional level or students wishing to go on to study performance at postgraduate level. Teaching will include instrumental/vocal lessons at the University Music Centre (comprising thirty minutes' tuition every week), masterclasses with professional musicians and weekly performance classes. Alongside the primary focus of performance, students will also receive teaching in careers and enterprise skills to assist their entry into the music profession. The marking standards for this module are similar to a performance diploma such as LRSM (Licentiate of the Associated Board of the Royal Schools of Music). The module may be especially attractive to a student preparing for such a diploma.</p>			
Programme module type:	Available to any degree programme.		
Pre-requisite(s):	MU2001 or audition		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars each week and 30-minute tutorials fortnightly and 10 hours participation in performance masterclasses over the semester.		
	Scheduled learning: 35 hours	Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%		
	As used by St Andrews: Coursework = 100% (Recital = 60%, Performance classes = 10%, Written work = 30%)		
Module Co-ordinator:	Mr B Williams		
Lecturer(s)/Tutor(s):	Mr B Williams		

Philosophy (PY) modules

PY3701 Language and Reality			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Availability restrictions:			
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 and Logic and Philosophy of Science. At least one of PY3701 and PY3702 is a compulsory for Joint Honours Philosophy.		
Anti-requisite(s):	PY3004		
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: 3-hour Written Examination = 50%, Coursework = 50%		
Module Co-ordinator:	DR S Prosser		
Lecturer(s)/Tutor(s):	Dr A Cotnoir		

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

PY3702 Value and Normativity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am - 1.00 pm Mon (seminar time to be arranged).			
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.				
Programme module type:	Compulsory for Single Honours Philosophy. At least one of PY3701 and PY3702 is a compulsory for Joint Honours Philosophy. Optional for Logic and Philosophy of Science.			
Anti-requisite(s):	PY3102			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr J Snedegar			
Lecturer(s)/Tutor(s):	Dr D Cavedon-Taylor			

PY4604 Political Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module provides an introduction to central issues in contemporary political philosophy. We begin with an overview of central themes in Kant's moral, legal, and political philosophy and proceed to an account of John Rawls's liberal egalitarianism, as presented in A Theory of Justice (1971) and developed in Political Liberalism (1993). Rawls claims that liberalism provides a theory of justice for a modern democratic society that is organized around the principle of fairness. We then examine various critics of Rawls. Among the questions addressed may be: (1) Does Kant's brand of moral theory, constructivism, provide a viable basis on which to build a political philosophy? (2) Is Rawls right to endorse a system of distribution that gives priority to the worst-off? (3) Are individuals answerable to demands of justice, or just governments? (4) Can liberalism answer the challenges of multiculturalism? (5) To which individuals do governments have duties of justice?				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
Anti-requisite(s):	PY4825			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr B Sachs			
Lecturer(s)/Tutor(s):	Dr J Timermann			

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PY4606 Contemporary Epistemology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Epistemology is a branch of philosophy concerned with the nature of knowledge, rational belief, evidence, and related issues. In this module, we will be discussing some of the most recent and exciting work in contemporary analytic epistemology. Some of the issues we will focus on are: How do contemporary epistemologists deal with the problem of philosophical scepticism? How is perceptual knowledge possible? What are we saying when we say someone 'knows' something? Do we always mean the same thing? What is the relationship between knowledge and our practical interests? Is a priori knowledge possible? If so, how?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr P Greenough			
Lecturer(s)/Tutor(s):	Dr P Greenough			

PY4609 Philosophical Methodology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>Philosophical theories are often motivated by common-sense intuitions about what we know, how we think, or what we ought to do. But what are these intuitions, and why do they play a special role in philosophy? Why should a correct philosophical theory of knowledge, for example, respect our intuitive judgements about what we do or do not know? Do our intuitions depend upon our cultural background? This module will examine the role of intuitions in philosophy, discuss rival accounts of intuition, and consider whether, as philosophers, we have any alternative to relying on intuitions.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof J Brown			
Lecturer(s)/Tutor(s):	Prof J Brown			

PY4610 Philosophy of Perception				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module focuses on contemporary philosophical problems of perception. In the first part of the module we will investigate the epistemology and metaphysics of perception. In the second part of the module we will examine philosophical puzzles particular to each of the 'Aristotelian five' senses: audition, gustation, olfaction, touch and vision. In the third part of the module we will investigate perception's relation to action, imagination and introspection (self-knowledge). Questions we will examine may include: Are perceptual states beliefs? Is perception direct or indirect? Do we hear objects in addition to hearing the sounds they make? Are there olfactory illusions? Can we see empty space? Does perceiving require the ability to act? Is mental imagery a component of ordinary perceptual experience? Is introspection 'inner' perception?				
Programme module type:	Optional for Single and Joint Honours Philosophy and 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr D Cavedon-Taylor			
Lecturer(s)/Tutor(s):	Dr D Cavedon-Taylor			

PY4611 Classical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
We shall conduct a thorough study of central and substantial texts in classical philosophy, with close attention to the philosophical implications. Examples: Plato's Theaetetus and Sophist, or Timaeus and Philebus, or Laches, Charmides, and Lysis; Aristotle's On the Soul, or Eudemian Ethics, or some books of the Physics. It is not ruled out that the focus in some years would be on the pre-socratics, or on Socrates and the 5th century sophists, or on Hellenistic philosophy, or on Platonism after Plato.				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
Pre-requisite(s):	PY2003			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr B Sattler			
Lecturer(s)/Tutor(s):	Dr B Sattler			

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PY4612 Advanced Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
The module presupposes acquaintance with and facility in the elementary practice of logic as set out in PY2001, and proceeds to consider and prove standard metalogical results, the central one of which is Henkin's proof of the strong completeness of classical first-order predicate logic. There will then be preparatory discussion of elementary set theory, the theory of ordinals and cardinals, and formal semantics. As an introduction to the metatheoretical methods we will consider proof by (mathematical) induction, as it commonly appears in metalogic in proof by induction on the degree (i.e., complexity) of wffs. Following rigorous proof of Henkin's result, we will conclude with examination of the relative expressive power of first-order logic.				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
Pre-requisite(s):	PY2001	Anti-requisite(s):	PY4816	
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: Take-home Examination = 100%			
Module Co-ordinator:	Dr A Cotnoir			
Lecturer(s)/Tutor(s):	Dr A Cotnoir			

PY4615 Metaphysics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module covers a series of inter-related issues in the metaphysics of modality and time. Topics to be discussed include: the metaphysical status of past and future objects; how objects and persons persist through time; the metaphysical status of merely possible worlds and individuals; and questions about identity across possible worlds. Readings from Saul Kripke, David Lewis, Ted Sider, Derek Parfit, and others.				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
Pre-requisite(s):	PY3701 or PY3004	Anti-requisite(s):	PY3007	
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Prosser			
Lecturer(s)/Tutor(s):	Dr S Prosser, Dr D Ball			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

PY4625 Philosophy and Public Affairs: Global Justice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module is an introduction to contemporary developments in the overlap between moral, political and social philosophy and public policy. It may explore debates on a number of issues such as just war theory, global distributive justice, education and welfare, arts and culture, environment and bioethics. In 2013-14, the module will address the topic of global justice, focusing on the nature and foundations of human rights, in particular on the status and moral implications of a human right to subsistence. It will also address contemporary developments in just war theory and environmental ethics.				
Programme module type:	Optional for Single and Joint Honours Philosophy and 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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr E Ashford			
Lecturer(s)/Tutor(s):	Dr E Ashford			

PY4632 Contemporary Philosophy of Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module will focus on singular propositions, singular thoughts, singular terms, and reference. Using contemporary texts, we will aim to reach a clear understanding of these important notions and their connections to issues elsewhere in philosophy. Among the questions we may address are: Are our linguistic and cognitive relationships to objects purely qualitative in some sense, or can we refer directly to objects and grasp singular propositions about them? What is it for a proposition to be singular, for a term to be singular, and for a term to be referring? What are the relationships between these phenomena? What expressions of natural language are referring terms? Must we be acquainted with an object to refer to it or to have singular thoughts about it? What philosophical consequences follow from different answers to these questions?				
Programme module type:	Optional for Single and Joint Honours Philosophy and 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 = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%,			
Module Co-ordinator:	Dr E Glick			
Lecturer(s)/Tutor(s):	Dr E Glick			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

PY4635 Contemporary Moral Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module aims to provide a critical appreciation of the main contemporary moral theories. It focuses on the debate between the two main rival impartial moral theories, consequentialism and deontology. It then considers critiques of both these theories and their responses, and some alternative approaches, including – for example – virtue ethics, feminist ethics and moral particularism.				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science			
Pre-requisite(s):	PY3702 (or co-req)	Anti-requisite(s):	PY4808	
Co-requisite(s):	PY3702 (or pre-req)			
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: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Dr B Sachs and Dr L Jones			

PY4644 Rousseau on Human Nature, Society, and Freedom				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
Jean-Jacques Rousseau (1712-1778) was one of the most acute critics of the illusions and self-deceptions of the eighteenth century. He has also often been seen as the first to understand the nature of 'modernity', and the first also to identify the difficulties human beings were going to find in living fulfilled and happy lives in the modern world. In his political writings especially, but also in his books on education and on the arts, and in his remarkable autobiographical texts, Rousseau explored the human condition and its problems with a vividness and directness that few have managed since. In this module we will focus on three texts in particular: Discourse on the Origins of Inequality (1754), On the Social Contract (1762), and Émile, or, On Education (1762).				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar and 1 consultative hour.			
	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 J Harris			
Lecturer(s)/Tutor(s):	Dr J Harris			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

PY4645 Philosophy and Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module invites students to philosophically consider the practice, aims, and values of one of humankind's most pre-eminent art forms, literature. We will be asking such questions, and investigating such issues, as: how is literature defined? What is the literary work? Why, and how, should we read literature? Since most literary works are also fictional, we will also focus on the nature of fiction, asking how fiction is defined, and investigating aspects of our engagement with fictional worlds and characters. Students should note this is not a module in literary theory, nor in literary criticism; nor will we be concerned with philosophy as literature, nor philosophy in literature; rather, our enquiry will be a form of philosophical (primarily analytical) aesthetics, carried out in relation to this one singular art form.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science			
Pre-requisite(s):	PY2101			
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 L Jones			
Lecturer(s)/Tutor(s):	Dr L Jones			

PY4701 Philosophy and Pedagogy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Available only to students taking ID4002 in same semester.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science, but only for those taking ID4002			
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:	Dr L Jones			
Lecturer(s)/Tutor(s):	Dr L Jones			

Social Anthropology (SA) modules

SA3030 Critical Thinkers and Formative Texts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
The module focuses on a range of theoretical approaches in social and cultural anthropology. Beginning with Structuralism, which has had a profound influence upon the discipline, the module also examines Post-Structuralist, Interpretive, Semantic and other approaches within anthropology. To achieve a sense of the developments of social theory and of theoretical critique is one of the aims of the module.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof R Dilley			
Lecturer(s)/Tutor(s):	Prof R Dilley			

SA3032 Regional Ethnography I				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module focuses on selected ethnographic regions of the world, and investigates the central themes in the anthropological studies of their peoples and cultures.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	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: 3-hour Examination or Take-Home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA3049 Perception, Imagination and Communication				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module will explore the basic human capacities to see, envision and share knowledge as these are transformed within diverse cultures. We will examine different kinds of evidence - the experience of a blind man regaining sight or the existence of culturally specific forms of madness - asking what these tell us about human perceptual, imaginative and communicative abilities. The module will involve some experimentation along the lines of Bartlett's famous 'War of the Ghosts' memory experiment, eschewing reduction either to instinct or to social construction approaches.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	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: 3-hour Examination or Take-Home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr H Wardle			
Lecturer(s)/Tutor(s):	Dr H Wardle			

SA3050 Interpreting Social and Cultural Phenomena				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module provides a critique of the idea of social and/or cultural construction that currently dominates the human sciences and suggests that it makes better sense to think of everything about human beings (including their very physicality) as historical phenomena. The module addresses five core areas of research in the human sciences: love, food and eating, children and childhood, work, and death. While the emphasis is on anthropological sources, students are asked to read and think about psychological and sociological texts as well. In all cases, students are asked to approach the various readings as products of the writers' theoretical perspectives on what it is to be human and what they consider to be the nature of explanation in the human sciences, including anthropology.				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, a fortnightly tutorial.			
	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: Continuous Assessment = 50%, 3-hour Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Prof C Toren			
Lecturer(s)/Tutor(s):	Prof C Toren			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA3061 Reading Ethnography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module will help students develop the essential skill of reading ethnography. Its aim is to investigate the distinctiveness of anthropology as a way of knowing the world, and of ethnographic writing as an also distinctive way of constructing and conveying that knowledge. The module will lay bare some of the central, often implicit, codes and conventions of ethnographic writing, and will explore how anthropologists use these to create and transmit knowledge about diverse social worlds. Rather than aiming to impart knowledge, the aim of the module is to provide students with the skills necessary to analyse ethnographies, and to guide them through an investigation into the distinctive qualities of anthropological knowledge.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 44 hours		Guided independent study: 256 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 y Blasco			
Lecturer(s)/Tutor(s):	Dr G y Blasco			

SA3063 Anthropology of Religion				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module will provide an introduction to the main anthropological approaches to religion. What, if any, are the distinguishing features of religion that make it a special object of analysis? A wide range of ethnographic and historical examples will be used to examine this question and related topics such as the relationship between ritual and power, ideology and consciousness, myth and imagination, and the disenchantment of the world. Consideration will be given also to the role of religion in the evolution of humanity.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	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: 3-hour Examination or Take-Home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr M Harris			
Lecturer(s)/Tutor(s):	Dr M Harris			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA3506 Methods in Social Anthropology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
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.				
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			

SA4058 Visual Anthropology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module provides an introduction to visual anthropology. This topic embraces a broad range of subjects such as photography, material culture, art and ethnographic film. The focus here is on film as a medium of ethnographic investigation and the changing nature of how it has been used as a form of enquiry. Debates about the role of the visual and vision are examined through the contribution of important film-makers. The module involves viewing and critically discussing films, as well as lectures.				
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: Continuous Assessment = 50%, 3-hour Examination or Take-Home Examination = 50%			
Module Co-ordinator:	Dr M Frankland			
Lecturer(s)/Tutor(s):	Dr M Frankland			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA4059 Living with Material Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module creatively addresses anthropological approaches to material culture and develops a critical understanding of how things play a part in human social relationships. We will explore how people live through things, using the body to transform materials from the environment into artefacts; consuming and displaying objects; incorporating them into domestic activities such as house-building and home-making, even living in them; transforming us in life cycle events such as weddings and funerals; re-remembering our pasts through tourist souvenirs, monuments or ceremonial shrines; and creating things which move us, whether 'magical artefacts' or 'works of art'. Students will become familiar with both key theoretical texts in material culture studies and the variety of artifacts and ways of representing them which have become almost iconic in material culture and 'ethnographic art' (from rock art sites to heritage centres; from masks to Surrealist art; from domestic artifacts to folk art).</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 77 hours		Guided independent study: 223 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Examination or Take-Home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Bunn			
Lecturer(s)/Tutor(s):	Dr S Bunn			

SA4098 Library-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only 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%			

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SA4099 Primary Research-based Dissertation			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2013/4		
Availability restrictions:	Available only to students taking Single Honours, Joint Honours and Major Degrees		
Planned timetable:	To be arranged.		
<p>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.</p> <p>(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		
Pre-requisite(s):	SA3506	Anti-requisite(s):	SA4098
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%		

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA4301 Anthropology in the Community				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Available only to students also taking ID4002			
Planned timetable:	none - largely independent study			
<p>This module is an anthropological complement to the placement module, ID 4002, 'Communication and Teaching in the Arts and Humanities'. It will provide students with the opportunity to develop an aspect of anthropological study into material accessible at school level, relevant to their workplace experience. It will help them to translate an academic anthropological theme into a more generally communicable form within a contemporary context, and develop their appreciation of impact and public engagement. It will also give them the opportunity to reflect on their work placement environment. It will benefit students who wish to take up teaching as a career.</p> <p>Because this module is largely based on independent study, taking this module precludes taking either SA4089 or SA4099.</p>				
Programme module type:	Optional for Social Anthropology			
Anti-requisite(s):	SA4098, SA4099			
Co-requisite(s):	ID4002			
Learning and teaching methods and delivery:	Weekly contact: 3 tutorials over semester to guide independent study.			
	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 S Bunn			
Lecturer(s)/Tutor(s):	Dr S Bunn			

SA4850 Andes				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm - 4.00 pm Tue			
<p>The Andes Mountains were home to some of the most original and sophisticated pre-capitalist states, notably the Inca empire. In this module the emergence and transformation of Andean civilisation is set in its wider context before and after the European invasion. The importance of past and present agencies in the construction of Andean identities requires ethnographic examination of memory of modern Andean communities. Mythohistorical accounts will be complemented by other disciplinary approaches that presuppose absolute chronology.</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: 3-hour Examination or Take-Home Examination = 50%, Coursework = 50%			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA4860 Anthropology of Amazonia				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Availability restrictions:	ACTUAL AVAILABILITY TO BE CONFIRMED LATER			
Planned timetable:	To be arranged.			
<p>The indigenous peoples of Amazonia have been the subjects of a dramatic increase in ethnographic attention since the late 1960's from anthropologists from many different countries, and the field is currently generating important publications of both ethnographic and theoretical topics. The module addresses this literature, and develops a substantive knowledge of the nature of indigenous societies of the region, on areas like ecology, social organization, recent history, mythology, ritual and the body. By a process of reiterated comparison between specific ethnographic cases, the module allows for the appreciation of these many separate societies as topological transformations of each other, and hence to raise important historical questions about these supposedly 'a-historical' societies.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	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: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Prof P Gow			
Lecturer(s)/Tutor(s):	Prof P Gow			

Philosophical, Anthropological & Film Studies - Honours Level - 2013/14 - August 2013

SA4863 Youth in Africa			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2013/4		
Availability restrictions:	Delivery of the module to be confirmed		
Planned timetable:	To be arranged.		
<p>This module will offer students the opportunity to examine past and present theoretical debates on colonial and postcolonial transformations in Africa. 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 colonial and postcolonial youthful subjectivities. The module will focus specifically on a series of interconnected debates on the role of youth in colonial and postcolonial Africa. This is intended to increase students' awareness of the role played by African youth in wider political, social, and economic transformations on the continent, 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.		
	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: 3-hour Examination or Take-Home Examination = 50%, Coursework = 50%		
Module Co-ordinator:	Dr M Fumanti		
Lecturer(s)/Tutor(s):	Dr M Fumanti		

School of Physics & Astronomy

Astronomy (AS) Modules

AS3013 Computational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2013/4		
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		

Physics & Astronomy - Honours 2013/14 - August 2013

AS4010 Extragalactic Astronomy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon, Tue, Thu			
<p>This module introduces the basic elements of extragalactic astronomy. This 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, and galaxy evolution in regions of high and low density is investigated. The module includes a look at modern instrumentation used in extragalactic astrophysics.</p> <p>Specialist lecturers from within the galaxy evolution research group will provide a direct link between material learnt in lectures and research currently being undertaken at the University of St Andrews.</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 = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Dr V Wild			
Lecturer(s)/Tutor(s):	Dr V Wild, Dr H Zhao			

AS4011 The Physics of Nebulae and Stars I				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Expected to be available each year from 2013/14			
Planned timetable:	10.00 am Mon, Tue, Thu			
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.				
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: 2-hour Written Examination = 75%, Coursework = 25%			
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			
Availability restrictions:	Expected to be available each year from 2013/4			
Planned timetable:	11.00 am Mon, Wed, Fri, 2.00 pm Mon			
<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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr K Wood			
Lecturer(s)/Tutor(s):	Dr K Wood			

AS4015 Gravitational and Accretion Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Availability restrictions:	Expected to be available each year from 2013/4			
Planned timetable:	9.00 am Mon, Wed, Fri, 3.00 pm MOon			
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.				
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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AS4025 Observational Astrophysics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	2.00 pm - 5.00 pm Mon and Thu, plus some nights.			
<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:	<p>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</p>			
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			

AS4103 Astrophysics Project (B.Sc.)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to B.Sc. Astrophysics students, and normally only in their final year.			
Planned timetable:	Half time in second semester, plus some preparation in first semester.			
<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:	2013/4			
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:	9.00 am Tue, Thu, 10.00 am Mon			
<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:	<p>At least two of AS5001, AS5002, and AS5003 must be taken for M.Phys. Astrophysics</p> <p>Optional for Physics M.Phys., Theoretical Physics, Theoretical Physics and Mathematics</p> <p>Optional for taught postgraduate programmes in the School.</p>			
Pre-requisite(s):	<p>Familiarity with scientific programming language essential, for example through AS3013 Computational Astrophysics or PH4030 or PH3080 Computational Physics. Entry to an MPhys programme or entry to a taught postgraduate programme in the School.</p>			
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			

AS5002 Magnetofluids and Space Plasmas				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
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:	11.00 am Mon, Tue, Thu			
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.				
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			
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			

AS5003 Contemporary Astrophysics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Available only to M.Phys. Astronomy students			
Planned timetable:	12.00 noon Mon, Wed, Fri			
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 MPhys Astronomy programme. 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			

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AS5101 Astrophysics Project (M.Phys.)				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to final year M.Phys. Astronomy students			
Planned timetable:	Full time in second semester, plus some preparation in first semester.			
<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:	<p>Weekly contact: Project students work "full-time" on their MPhys 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.</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 = 100%</p>			
Module Co-ordinator:	Prof M M Jardine			
Lecturer(s)/Tutor(s):	Astronomy staff			

Physics (PH) Modules

PH3007 Electromagnetism				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon, Wed, Fri			
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.Sci., 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: 2-hour Written Examination = 80%, Coursework = 20%			
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:	2013/4			
Planned timetable:	9.00 am Mon, Tue, Thu, 3.00 pm Fri			
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.Sci., 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: 2-hour Written Examination = 80%, Coursework = 20%			
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:	2013/4			
Planned timetable:	9.00 am Wed, Fri (Sem 1), 10.00 am Wed (Sem 2)			
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:	2013/4			
Planned timetable:	9.00 am Tue, Thu			
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: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Dr A S Kohnle			
Lecturer(s)/Tutor(s):	Dr A S Kohnle			

PH3062 Quantum Mechanics 2				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2013/4			
Planned timetable:	9.00 am Wed, Fri			
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			
Pre-requisite(s):	PH3061			
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: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari			

PH3074 Electronics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	9.00 am Mon, Wed, Fri, 10.00 am Fri lab			
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 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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr P A S Cruickshank			
Lecturer(s)/Tutor(s):	Dr P A S Cruickshank			

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PH3080 Computational Physics				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Availability restrictions:	This module is intended for students who started their honours programme in the School in 2012-13 and later.			
Planned timetable:	2 hours on 2 afternoons of Tue, Thu, Fri			
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			

PH3081 Mathematics for Physicists				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	10.00 am Mon, Tue, Thu, 2.00 pm Mon			
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.				
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: 2-hour Written Examination = 80%, Coursework (Class Tests) = 20%,			
Module Co-ordinator:	Dr C A Hooley			
Lecturer(s)/Tutor(s):	Dr C A Hooley			

PH3082 Mathematics for Chemistry / Physics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Available only to Chemistry and Physics M.Sci. students			
Planned timetable:	10.00 am Mon, Tue, Thu			
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: 2-hour Written Examination = 60%, Coursework = 40%			
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:	2013/4			
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			

PH4022 Nuclear and Particle Physics				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Wed, Fri			
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			
Required for:	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: 2-hour Written Examination = 95%, Coursework = 5%			
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:	2013/4			
Planned timetable:	9.00 am Mon, Tue, Thu, 3.00 pm Mon			
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			

PH4026 Signals and Information				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon, Wed, Fri, 2.00 pm Mon			
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.				
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:	2013/4			
Planned timetable:	9.00 am Tue, Thu, 3.00 pm Fri			
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.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics Undergraduate Programmes. Compulsory for Optoelectronic and Laser Devices Postgraduate Taught Programme.			
Pre-requisite(s):	PH3007 (Undergraduates)			
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 M Mazilu			

PH4028 Advanced Quantum Mechanics				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	12.00 noon Tues and Thu			
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 teleporation, 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			

PH4031 Fluids				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon, Tue, Thu, 2.00 pm Mon			
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:	2013/4			
Planned timetable:	3.00 pm Tue, 4.00 pm Tue, Fri			
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: 2-hour Written Examination = 75%, Coursework (assessed tutorial questions) = 25%			
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:	2013/4			
Planned timetable:	9.00 am Mon, Wed, Fri			
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: 2-hour Written Examination = 90%, Coursework = 10%			
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:	2013/4			
Planned timetable:	12.00 noon Mon, Wed, Fri			
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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr F E W Koenig			
Lecturer(s)/Tutor(s):	Dr F E W Koenig			

PH4036 Physics of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	12.00 noon Mon, Tue, Thu			
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			
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:	11.00 am Tue, Thu			
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: 2-hour 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:	2013/4			
Availability restrictions:	This module is intended for students who started their honours programme in the School in 2012/13 and later.			
Planned timetable:	9.00 am Mon, Tue, Thu, 2.00 pm Fri			
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 = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr N Korolkova			
Lecturer(s)/Tutor(s):	Dr N Korolkova			

PH4039 Solid State Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	11.00 am Mon, Wed, Fri, 2.00 pm Fri			
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 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: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Prof S L Lee			
Lecturer(s)/Tutor(s):	Prof S L Lee			

PH4040 Nuclear and Particle Physics Extended				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 2013/4.			
Planned timetable:	10.00 am Wed, 12.00 noon Wed, Fri.			
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.				
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: 2-hour Written Examination = 60%, Coursework = 40%			
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:	2013/4			
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 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.				
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:	2013/4		
Availability restrictions:	Normally only in the final year of a Physics B.Sc. programme		
Planned timetable:	Half time in second semester, plus some preparation in first semester.		
<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 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 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 essay, Report and Oral Examination) = 100%</p>		
Module Co-ordinator:	Dr D Cassettari		
Lecturer(s)/Tutor(s):	Dr D Cassettari and School staff		

PH4112 Physics Project (Non-graduating - 120)				
SCOTCAT Credits:	120	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
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.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	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:	1 or 2
Academic year:	2013/4			
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.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = %, Coursework = %			
	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			

Physics & Astronomy - Honours 2013/14 - August 2013

PH5002 Foundations of Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	2.00 pm Mon, Tue, Fri			
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 and Mathematics Optional for Astrophysics M.Phys., Physics M.Phys., Chemistry and Physics M.Sci., Theoretical Physics,			
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:	2013/4			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	3.00 pm Mon, Wed, Fri			
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:	Compulsory for Theoretical Physics Optional for Astrophysics M.Phys., Physics M.Phys., 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			

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PH5004 Quantum Field Theory				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	2.00 pm Thu, 3.00 pm Tue, Fri			
<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			

PH5005 Laser Physics 2				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	10.00 am Mon, Tue, Wed, Thu			
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 M H Dunn			

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PH5011 General Relativity				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	9.00 am Wed, Fri, 3.00 pm Thu			
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.				
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			
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			

PH5012 Quantum Optics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	11.00 am Mon, Tue, Thu			
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:	2013/4			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	4.00 pm Mon, Tue, Thu			
<p>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.</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):	UG - 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:	TBA			
Lecturer(s)/Tutor(s):	TBA			

PH5015 Applications of Quantum Physics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	12.00 noon Mon, Tue, Thu			
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: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Prof K Dholakia			
Lecturer(s)/Tutor(s):	Prof K Dholakia, Dr M Mazilu			

PH5016 Biophotonics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	Normally only taken in the final year of an M.Phys. or M.Sci. programme involving the School			
Planned timetable:	9.00 am Mon, Wed, Fri			
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: 2-hour Written Examination = 80%, Coursework = 20%			
Module Co-ordinator:	Prof K Dholakia			
Lecturer(s)/Tutor(s):	Prof K Dholakia			

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PH5101 Physics Project (M.Phys.)			
SCOTCAT Credits:	60	SCQF Level 11	Semester: Whole Year
Academic year:	2013/4		
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 MPhys 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		

PH5103 Project in Theoretical Physics (60)				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2013/4			
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>This project in theoretical physics research aims to develop students' skills in searching the physics literature, in the design and implementation of investigations in theoretical/computational physics, in the evaluation and interpretation of data, and in the presentation of results.</p> <p>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. theoretical physics 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. 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. In addition to weekly meetings with the project supervisor, students will meet fortnightly with their peer support group.</p>				
Programme module type:	Compulsory for Theoretical Physics Either PH5103 or MT5999 is compulsory for Theoretical Physics and Mathematics			
Anti-requisite(s):	PH5102, PH5101, PH4111, AS4103, AS5101			
Learning and teaching methods and delivery:	Weekly contact: Weekly contact: Project students should spend all 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: 28 hours		Guided independent study: 572 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 A Hooley			
Lecturer(s)/Tutor(s):	Dr C A Hooley			

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PH5183 Photonics Applications				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2013/4			
Availability restrictions:	This module is intended for students in the final year of an M.Phys. or M.Sci. programme involving the School, for those in the M.Sc. in Photonics and Optoelectronic Devices M.Sc., and for those on the Eng.D. degree in Photonics.			
Planned timetable:	11.00 am Wed, Fri			
<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 electrons in a metallic material. Resonances of Plasmons are the basis for a new class of materials called 'Metamaterials'. These are compared with photonic crystals. Applications include super-resolution imaging, optical cloaking, sensing, and surface enhanced Raman scattering.</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.Sc., 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:	TBA			
Lecturer(s)/Tutor(s):	Prof K Dholakia, Dr A di Falco			

PH5265 EMSP Solar Power			
SCOTCAT Credits:	6	SCQF Level 11	Semester: 1
Academic year:	2013/4		
Planned timetable:	To be arranged.		
<p>This module will introduce students to the societal need and the economics of solar power, then enter into the fundamental limitations of solar cells, such as the Shockley limit for a single junction solar cell and how it is addressed using multifunction cells. This is followed by methods of characterising solar cells. The light-trapping problem will be discussed next and how it is addressed using photonic nanostructures (random scatterer, diffractive, plasmonic structures) and "black silicon". Finally, the students will be introduced to different solar cell materials and their specific requirements, e.g. organic semiconductors, organic/inorganic hybrids, dye-sensitised cells and more "exotic" materials such as CdTe and CIGS. The module includes 3 off 2h laboratory sessions reinforcing key solar cell concepts. Overall, the students will gain insight into key aspects of solar cell operation and be exposed to some of the current research trends.</p>			
Programme module type:	Optional for Physics M.Phys. Optional for European Master of Science in Photonics		
Pre-requisite(s):	Admission to a Taught Postgraduate or M.Phys./M.Sci. programme within the School		
Learning and teaching methods and delivery:	Weekly contact: 2-day residential workshop + 1 afternoon of presentation.		
	Scheduled learning: 18 hours	Guided independent study: 42 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100% (tutorial sheets = 50%, project presentation = 50%)		
Module Co-ordinator:	Prof I D W Samuel		
Lecturer(s)/Tutor(s):	Prof I D W Samuel		

School of Psychology & Neuroscience

Neuroscience (PN) Modules

PN3312 Pharmacology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Planned timetable:	Lectures: 11.00 am Mon, Tues and Wed. Practicals: to be arranged.		
<p>This module assumes that students are familiar with the material covered in BL2101. 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 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 cardiovascular 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. These practical sessions aim to help students build a working knowledge of drug names and actions as well as pharmacological concepts.</p>			
Programme module type:	Compulsory for Neuroscience. Optional for Biochemistry, Biomolecular Science, Molecular Biology, Cell Biology, Biology, and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2101 or BL2104	Anti-requisite(s):	BL3312
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: 3-hour Written Examination = 66%, Coursework = 34%		
Module Co-ordinator:	Dr G Doherty		
Lecturer(s)/Tutor(s):	Dr A Butler, Dr G Doherty, Dr GB Miles, Dr G Prescott, Dr R Ramsay, Prof K Sillar, Prof G Taylor		

Psychology & Neuroscience - Honours 2013/14 - August 2013

PN3313 Neuroscience				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Planned timetable:	Lectures: 12.00 am Mon, Tues and Wed. Practicals: to be arranged.			
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.				
Programme module type:	Compulsory for, Neuroscience. Optional for Behavioural Biology, Cell Biology, Evolutionary Biology, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2101		Anti-requisite(s):	BL3313
Required for:	PN4230, PN4231, BL4232, PN4234, PN4235			
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: 3-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr G Miles			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Prof K Sillar, Dr G Miles, Dr W Heitler, Dr W Li, Dr G Doherty			

PN4230 Neurodegeneration and Aging				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	PN3313		Anti-requisite(s):	BL4230
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: 2-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr G Doherty			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Dr G Doherty			

Psychology & Neuroscience - Honours 2013/14 - August 2013

PN4231 Neuromodulation			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Availability restrictions:	BSc Hons Neuroscience students have priority on this module		
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):	PN3313	Anti-requisite(s):	BL4231
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 = 50%, Practical Examinations = 25%, Coursework = 25%		
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%		
Module Co-ordinator:	Prof K Sillar		
Lecturer(s)/Tutor(s):	Prof K Sillar, Dr G Miles, Dr W Heitler		

PN4234 Synaptic Transmission			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Availability restrictions:	BSc Hons Neuroscience students have priority on this module		
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 corelease, vesicle release and recycling mechanisms, retrograde signalling, 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):	PN3312 and PN3313	Anti-requisite(s):	BL4234
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 = 20%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
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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PN4235 Motoneurons: From Physiology to Pathology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
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):	PN3313	Anti-requisite(s):	BL4235	
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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G Miles			
Lecturer(s)/Tutor(s):	Dr W Li, Prof K Sillar, Dr G Miles, Dr W Heitler			

PN4299 Neuroscience Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Planned timetable:	To be arranged with the supervisor.			
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.				
Programme module type:	PN4299 or BL4200 or BL4201 is compulsory for Neuroscience.			
Anti-requisite(s):	BL4200, BL4201, PS4299			
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: Practical Examination = 35%, Coursework = 65%			
Module Co-ordinator:	Prof K T Sillar			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Psychology and Neuroscience or the School of Biology			

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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr M W Oram			
Lecturer(s)/Tutor(s):	Dr M W Oram, Dr K Mavor			

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: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr P Foldiak			
Lecturer(s)/Tutor(s):	Dr P Foldiak and Mr P L 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: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Balslev			
Lecturer(s)/Tutor(s):	Dr D Balslev			

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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:	Dr A Lucas			
Lecturer(s)/Tutor(s):	Dr A Lucas			

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 K Mavor			
Lecturer(s)/Tutor(s):	Dr K Mavor			

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PS3035 Cognitive and Behavioural Neuroscience				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2013/4			
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: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr I Jentsch			
Lecturer(s)/Tutor(s):	Dr I Jentsch			

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%			
Module Co-ordinator:	Dr C Hobaiter			
Lecturer(s)/Tutor(s):	Dr C Hobaiter			

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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).			
<p>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.</p>				
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: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Prof J Harris			
Lecturer(s)/Tutor(s):	Prof J Harris			

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).			
<p>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.</p>				
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: 1.5-hour 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:	Whole Year
Planned timetable:	Not applicable.			
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.				
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:	Whole Year
Planned timetable:	Not applicable.			
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.				
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			

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PS4060 Review Essay				
SCOTCAT Credits:	15	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.			
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):	Dr E Bowman			

PS4064 Working Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr J G Quinn			
Lecturer(s)/Tutor(s):	Dr J G Quinn			

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PS4065 Vision: from Neurons to Awareness				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Planned timetable:	9.00 am - 11.00 am Fri.			
<p>The aim of the module is to develop an advanced understanding of the psychological processes involved in visual perception. The module will illustrate how a full understanding of perception requires scientific study at a number of levels, from the whole human, moving apparently effortlessly through our complex and sometimes dangerous environment, through neuropsychological studies exploring what happens when selective damage occurs, to the functioning of the individual neurons that underlie our ability to perceive an apparently continuous, colourful, three-dimensional world.</p> <p>The module will cover selected topics that illustrate the extraordinary range of problems our perceptual systems solve in the real world, including: active vision (how do our visual systems allow us to function fast enough to drive a car, play fast-action sports), three-dimensional vision (why and how do we perceive the world as three-dimensional), material perception (how do we perceive things as dirty, smooth, shiny, patterned), visual consciousness (is perception necessarily conscious, and is it possible to explore consciousness scientifically?).</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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Prof J Harris			
Lecturer(s)/Tutor(s):	Prof J Harris			

PS4066 Neural Modelling				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Availability restrictions:	Normally available only to students in the second year of the Honours Programme.			
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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr P Foldiak			
Lecturer(s)/Tutor(s):	Dr P Foldiak			

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PS4071 Behavioural Neuroscience			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
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: 2-hour Written Examination = 75%, Coursework = 25%		
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
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	9.00 am - 11.00 am Thu		
<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: 2-hour Written Examination = 75%, Coursework = 25%		
Module Co-ordinator:	Dr B Dritschel		
Lecturer(s)/Tutor(s):	Dr B Dritschel		

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PS4079 Sex Differences and Gender Development				
SCOTCAT Credits:	15		Semester:	2
Availability restrictions:	Only available to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Mon.			
This advanced-level module will examine the evidence for sex differences in human behaviour and explore how gender develops across the lifespan. Students will learn how hormones, such as testosterone and estrogen, influence brain function and behaviour in non-human animals and will apply this knowledge to human data. Example topics include sexual behaviour (including sexual orientation), aggression, memory, sex differences in mental health, and the evolution of sex differences. Teaching will be based on student-led seminars with supporting lectures. Emphasis will be placed on critical evaluation and the ability to relate scientific data to broader debates regarding sex differences in behaviour.				
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.			
	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 G Brown			
Lecturer(s)/Tutor(s):	Dr G Brown			

PS4083 Psychology of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Mon.			
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.				
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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr I Jentsch			
Lecturer(s)/Tutor(s):	Dr I Jentsch			

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PS4084 The Psychology of Visual Art			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	11.00 am - 1.00 pm Thu.		
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.			
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: 2-hour Written Examination = 75%, Coursework = 25%		
Module Co-ordinator:	Dr D Vishwanath		
Lecturer(s)/Tutor(s):	Dr D Vishwanath		

PS4085 Evolution and Development of Social and Technical Intelligence			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on M.Sc. Evolutionary and Comparative Psychology: the Origins of Mind		
Planned timetable:	11.00 am - 1.00 pm Thu.		
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.			
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:	Dr C Cross		
Lecturer(s)/Tutor(s):	Dr C Cross		

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PS4086 Origins and Evolution of Mind Reading (Theory of Mind)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on M.Sc. in Evolutionary and Comparative Psychology: the Origins of Mind			
Planned timetable:	11.00 am - 1.00 pm Tue.			
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.				
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: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr J-C Gomez			
Lecturer(s)/Tutor(s):	Dr J-C Gomez			

PS4088 Emotion				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Wed.			
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.				
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: 2-hour Written Examination = 75%, Coursework = 25%			
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			

PS4090 Face Perception and Human Attraction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
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			

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PS4091 Modelling and Computer-aided Research			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	11.00 am - 1.00 pm Fri.		
<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: 2-hour Written Examination = 60%, Coursework = 40%		
Module Co-ordinator:	Dr D W Hunter		
Lecturer(s)/Tutor(s):	Dr D W Hunter		

PS4092 The Evolutionary Psychology of Religion and Belief				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am Thu.			
<p>This module allows students to enhance their understanding of how evolution has shaped human psychology through the intriguing question of how religions emerged and persist. It explores the application of the theoretical framework of evolutionary psychology to this question through topics such as religion and emotion; the ascription of agency and causation; cooperation and social cohesion; the evolution of morality; religious practices as costly signals; the effect of religion on psychological and physical wellbeing. Teaching is based on lectures introducing each subtopic and student-led seminars emphasizing both conceptual and empirical aspects of this newly emerging field of study.</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: 1 x 1-hour lecture, 1 x 1-hour seminar, 1 x 1-hour tutorial.			
	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 K Arnold			
Lecturer(s)/Tutor(s):	Dr K Arnold			

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PS4093 The Psychology of Dementia (SUBJECT TO APPROVAL)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Planned timetable:	9.00 am - 11.00 am Wed			
<p>This module will examine the psychology of dementia focusing on the cognitive and psychosocial impact on individuals with a diagnosis and those who care for them. Students will examine patterns of both lost and retained cognitive skills in people with dementia. We will then focus on how retained skills can be maximised and how the caregiving experience can be improved for both people living with dementia and their caregivers. 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, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar, 1 x 1-hour tutorial.			
	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 M Ellis			
Lecturer(s)/Tutor(s):	Dr M Ellis			

Sustainable Development

Sustainable Development (SD) Modules

SD3201 Interdisciplinary Research Design and Methodology			
SCOTCAT Credits:	60	SCQF Level 9	Semester: 2
Academic year:	2013/4		
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 S Leahy		

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SD3202 Research Methods in Sustainable Development				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 S Leahy			

SD3203 Interdisciplinary Research in Sustainable Development				
SCOTCAT Credits:	50	SCQF Level 9	Semester:	2
Academic year:	2013/4			
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 S Leahy			

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SD3204 Method, Field , Data: Doing Research in Sustainable Development			
SCOTCAT Credits:	40	SCQF Level 9	Semester: 2
Academic year:	2013/4		
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 S Leahy		

SD3222 Governance for Sustainability			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2013/4		
Planned timetable:	9.00 - 11.00 am Mon, occasional 9.00 am - 11.00 am Wed.		
<p>The Earth's environment has become a major focal point of international conflict and cooperation. Responding to the growing threats of climate change and energy insecurity, countries have signed over 700 international treaties designed to protect and manage the environment. Just as importantly, they have developed elaborate tools and systems for observing and modelling the behaviour of the global environment and translating this knowledge into policy advice. At the same time, global challenges demand action from local, national and transnational actors. This course provides a broad overview of developments and patterns in the practical, theoretical and political dimensions of multi-level governance as they have emerged over the past three decades. In so doing, a wide range of policy case studies are explored including energy security, climate change and oceans & coasts. Students will acquire practical knowledge of Governance arrangements for sustainability, as well as critical skills to assess notions of 'Good Governance.'</p>			
Programme module type:	Optional for Sustainable Development		
Pre-requisite(s):	SD2002		
Learning and teaching methods and delivery:	Weekly contact: 2 hours lectures per week plus seminars and one guest lecture.		
	Scheduled learning: 23 hours	Guided independent study: 177 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 T A Stonjanovic		
Lecturer(s)/Tutor(s):	Dr T A Stonjanovic, Dr D McCauley		

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SD4121 Sustainability in Practice				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged			
<p>This module presents students with an exciting opportunity to undertake a critical assessment of a topic that arises from your particular interests in SD. It is built around a field course that will allow you to witness and experience (to some extent) sustainability "in practice", and thus appreciate better the relationship between theories and practice of SD. The module requires you to identify and review a body of SD-related literature on scenario planning that extends beyond the topics covered in your Honours option modules. You will undertake two pieces of continual assessment: a field diary undertaken during the field course, and a group document which is a result of the scenario planning exercise, .</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	SD 3201 or SD3202 or SD3203 or SD3204	Anti-requisite(s):	SD4221	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per week, plus 2 days of field visits.			
	Scheduled learning: 30 hours		Guided independent study: 70 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 Reid			

SD4221 Current Issues in Sustainable Development - Independent Review Essay				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
<p>This module presents students with an exciting opportunity to undertake in-depth critical assessment of a topic that arises from your particular interests in SD. It requires you to identify and review a body of SD-related literature that extends beyond the topics covered in your Honours option modules. The topic you identify must either (1) have evolved significantly over time or space, (2) involve contestation and debate or (3) constitute an emerging area of interest within the field of SD. Many topics will have two or more of these characteristics. Your essay should comprise a critical review and synthesis of the empirical content and methodological and theoretical debates associated with your chosen body of literature.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	Entry in SD honours; SD3201 or SD3202 or SD3203 or SD3204			
Anti-requisite(s):	SD4121			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar per week, 1 tutorial and 20 hours of fieldwork during semester.			
	Scheduled learning: 41 hours		Guided independent study: 159 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 McCollum			

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SD4222 Advanced Qualitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 SD (e.g. cultural, historical, political, social, environmental, health and international development literature and debates) and will address issues of social, cultural, gender, sexual, and or generational nature. Techniques, themes and materials will alternate in accordance with staff research specialism.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	Entry in SD honours; SD3201 or SD3202 or SD3203 or SD3204			
Anti-requisite(s):	SD4223, SD4224			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures and seminars, 1-hour practical classes over 7 weeks and occasional tutorials.			
	Scheduled learning: 38 hours		Guided independent study: 162 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 Sothern and Dr M Kesby			

SD4223 Advanced Quantitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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 at least one 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 Sustainable Development			
Pre-requisite(s):	Entry in SD honours; SD3201 or SD3202 or SD3203 or SD3204			
Anti-requisite(s):	SD4003, SD4222, SD4224			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures, 2-hour seminars, 1-hour practical classes each week for 7 weeks, and occasional tutorials.			
	Scheduled learning: 38 hours		Guided independent study: 162 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof S Fotheringham			

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SD4224 Advanced Topics in Physical Disciplines				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2013/4			
Planned timetable:	To be arranged.			
This module allows students to explore advanced topics/methods in the Physical Sciences that will provide a progressive advancement on material explored in 3000-level honours and core modules, and will also expand and deepen the students' practical skill base. Each sub-unit will provide a mix of in-depth study of primary literature, combined with advanced training in analytical, technical or methodological approaches, thus integrating "hands-on" applied learning and critical reading of the primary literature. The module will complement and expand the learning acquired in one of the SD research methods training (SD3201 or SD3202 or SD3203) during term two of JH, and will provide additional resources for the development of students' individual dissertation project. Students choose among 4 units of 10 credits each.				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	Entry in SD honours; SD3201 or SD3202 or SD3203 or SD3203			
Anti-requisite(s):	SD4222, SD4223			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures, 2-hour seminars and 1-hour practicals each week for 7 weeks, and occasional tutorials.			
	Scheduled learning: 38 hours		Guided independent study: 162 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 Streeter			

SD4299 Dissertation in Sustainable Development				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2013/4			
Availability restrictions:	Available only to students who intend an Honours Degree in Sustainable Development.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Sustainable Development			
Anti-requisite(s):	SD4002			
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 Reuschke			

InterDisciplinary (ID) Modules

ID4001 Communication and Teaching in Science			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2013/4		
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:	Dr B Sinclair		

InterDisciplinary - Honours Level - 2013/14 - August 2013

ID4002 Communication and Teaching in Arts and Humanities				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2013/4			
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.			
<p>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.</p>				
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. TBC			
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			

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			

InterDisciplinary - Honours Level - 2013/14 - August 2013

ID5059 Knowledge Discovery and Datamining				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2013/4			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri.			
<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:	<p>Optional for M.Sci. in Computer Science</p> <p>Optional for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems M.Sc. Programmes.</p> <p>Compulsory for Applied Statistics and Datamining Taught Postgraduate Programme.</p> <p>Optional for Statistics Taught Postgraduate Programme.</p>			
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%			
Assessment pattern:	As used by St Andrews:			
	2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr C R Donovan and Dr T Kelsey			