

2017 - 2018

Honours Level Module Catalogue



University of
St Andrews
FOUNDED
1413

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Curriculum development

The University will use all reasonable measures to deliver courses of study as they are outlined at the time of offer. However, as a research intensive institution, the University ensures that its teaching is based on and references the research and related interests of its staff, which may change from time to time.

We are also mindful of the best use of our resources to ensure the highest quality experience for our students. As a result, programmes and modules are regularly reviewed with the aim of enhancing students' learning experience.

Any changes are made with due consideration to minimising impact, safeguarding academic standards and assuring quality, and are described at:
www.st-andrews.ac.uk/media/teaching-and-learning/policies/course-revision-protocol.pdf

Introduction to the Honours Level Module Catalogue

The main body of the Catalogue is presented in Sections relating to the Academic 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. The number of credits associated with a module gives an indication of the amount of learning involved. For example, 1000-level modules in the School of Art History are each 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)** Levels provide an indication of the complexity of qualifications and learning. See: <http://scqf.org.uk/wp-content/uploads/2014/03/SCQF-Revised-Level-Descriptors-Aug-2012-FINAL-web-version1.pdf>

Semester. The Semester or Semesters in which the module is taught. '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. Where a single time is given (e.g. 9.00 am) the class meets for one hour. If days of the week are not specified, the class meets every day from Monday to Friday, with the usual exception of Wednesday afternoons. Further details may be provided in this field.

Description. This is a brief statement of the content of a module.

Pre-requisite(s). Modules or qualifications which must be passed prior to this module. Modules 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 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. This field indicates where a module is required to be passed, as a pre-requisite for another module.

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

Compulsory / Optional. In the 'Programme module type' field, modules are identified as either 'Compulsory' or 'Optional' for a programme or group of programmes. 'Compulsory' modules must be taken for the programmes named. Modules defined as 'Optional' are appropriate to fulfil degree credit requirements for the named programme(s). Students may select 'Optional' modules and will be allowed entry to those modules which are agreed with their Adviser of Studies for each year of study.

Learning and Teaching Methods and Delivery. This gives the anticipated **Weekly Contact** hours with academic staff 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. Where the pattern of teaching varies from week to week, **the average weekly contact is given**. Various activities may be included. (tutorials, laboratory work, practical sessions, lectures, fieldwork, consultation hours etc).

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.

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Assessment pattern. A brief description of the distribution between assessed 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 a QAA context.

Re-assessment pattern. This is the method by which a module will be re-assessed if it is failed in the main assessment.

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

Module teaching staff: One or more academic members of staff who are planned to deliver the content of the module.

Additional information by Schools: Self-explanatory.

School of Art History

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Art History (AH) modules

AH3104 The Age of Klimt, Olbrich and Mucha				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)			
<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 Gödöllo colony, the Mánes and Sztuka societies. Major figures include Klimt, Wagner, Hoffmann, Olbrich, Lechner, Mucha, Rippl-Rónai and Wyspianski.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), field trip - 8 hours			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr J Howard			
Module teaching staff:	Dr J Howard			

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AH3130 Approaches to Art History				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am - 12.30 pm Mon and either 9.00 am - 10.30 am (2 groups) or 11.00 am - 12.30 pm (2 groups) Wed			
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.				
Programme module type:	Compulsory for Single Honours Art History. Optional for Joint Honours Art History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour lecture and 1 x 1.5-hour seminar (x 10 weeks)			
	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: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr S Kalletrup and Dr S Rose			
Module teaching staff:	Dr S Kalletrup and Dr S Rose			

AH3131 A Survey of Islamic Art				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 11.00 am Wed (lecture) and either 10.00 am or 11.00 am Thu (seminar)			
The Arts of Islam offers an introduction to the history of art and architecture in the Middle East and Central Asia, from the birth of Islam in the seventh century through to modern times. It is designed to form a strong foundation for further, future engagement with art and architecture of the Islamic world. The module's expansive timeframe and extensive geographical reach will be explored thematically, and topics such as the word, ornament, figural representation and portraiture, courtly life, prophets, modernity and tradition, and death and afterlife will be addressed in their artistic, and further in their social, religious and political contexts. This will frequently involve discussing very different material, such as architecture, painting, and the minor arts in single lectures and seminars. During the module, we shall also consider how the arts of Islamic realms relate to analogous developments in European art, and ask what actually could be Islamic about art.				
Programme module type:	Optional for Art History or for Middle East History			
Pre-requisite(s):	AH2001 and AH2002 with passes at 11 or better in both OR MH2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks), 1 seminar (x 10 weeks)			
	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: Coursework = 100%			
Re-assessment pattern:	1 x Written assignment as agreed by the Board of Examiners			
Module coordinator:	Dr I Sturkenboom			
Module teaching staff:	Dr I Sturkenboom			

AH3196 Modern Art Beyond the West				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 11.00 am Thu (lecture) and either 3.00 or 4.00 pm Thu (seminar)			
<p>Prompted by globalisation in the present day, many have suggested that narratives of modern art focused on Western cities such as Paris and New York now seem provincial or inadequate. This course examines the rise of early to mid-twentieth century 'modern' art in a range of countries not usually considered in Western survey courses. In doing so it will ask what it means to study modernism in and outside the West in the present day, as well as whether it is still useful to think in terms of such overarching categories as 'modernism', the 'global', and the 'non-Western'.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 with passes at grade 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1 hour seminar x 11 weeks			
	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%			
Re-assessment pattern:	1 x Written assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr S Rose			
Module teaching staff:	Dr S Rose			

AH4050 Approaches to Persian Painting and the Arts of the Book				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Wed (lecture) and either 9.00 am or 11.00 am Thu (seminar)			
<p>This module surveys the heyday of the Persian Arts of the Book, from the fourteenth to the sixteenth centuries. These manuscripts are often lavishly illustrated with colourful paintings. Building on a century's worth of scholarly investigations, we will examine these images, their styles, and their motifs. We will also look beyond the pictures themselves and consider aspects of these books that remain under explored, such as textual contents, page layouts, the forms and functions of (non-illustrating) illumination, and their organisation. Questions we shall explore include: For whom were the manuscripts made? How were workshops organised? Where did the inspiration for paintings come from? What is the relationship between text and image? How were manuscripts perceived and altered? This module will be delivered through a combination of lectures, seminars, and visits to manuscript collections.</p>				
Programme module type:	Optional for Art History Optional for Middle East Studies			
Pre-requisite(s):	AH2001 and AH2002 with passes at 11 or better in both OR MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks) and 12 hours of 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%			
Re-assessment pattern:	1 x Written assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr I Sturkenboom			
Module teaching staff:	Dr I Sturkenboom			

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AH4078 Art and Politics in France (1945 - 1975)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
	<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			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks).			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr N Adamson			
Module teaching staff:	Dr N Adamson			

AH4081 The Scandinavian Art of Building and Design 1890-1960				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Tues (lecture) and either 10.00 am or 11.00 am Wed (sem)			
	<p>This module offers an examination of Scandinavian architecture and design between 1890 and 1960. Focusing on selected developments in Denmark, Sweden, Norway and Finland, it also highlights the significant relationship to German design theory and practice of the period. Beginning with a consideration of the legacy of National Romanticism the module moves on to explore architectural Expressionism, Nordic Classicism, and Scandinavia's unique form of architectural modernism known as Functionalism or the Scandinavian synthesis. Examination of individual buildings and civic planning is combined with a focus on the importance of integrated design: furniture, fittings, household utensils, the relationship to the environment etc. Individuals studied include Martin Nyrop, Ragnar Ostberg, Eliel Saarinen, Kay Fisker, Alvar Aalto, and Arne Jacobsen.</p>			
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examination = 30%, Practical Exams = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr S Kallestrup			
Module teaching staff:	Dr S Kallestrup			

AH4097 60-Credit Honours Dissertation in Art History			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
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		
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.		
Anti-requisite(s):	AH4099		
Learning and teaching methods and delivery:	Weekly contact: During the semester, in total there will be 1 x 1-hour briefing seminar; 1 x 1-hour pre-supervisory meeting; 1 x 1-hour dissertation writing seminar; 2 x 1-hour supervisory meetings; 1 x 2-hour presentation seminar; 1 x 1-hour review meeting.		
	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%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr L Moretti		
Module teaching staff:	Team taught		

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AH4099 30-Credit Dissertation in Art History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Anti-requisite(s):	AH4097			
Learning and teaching methods and delivery:	Weekly contact: During the semester, in total there will be 1 x 1-hour briefing seminar; 1 x 1-hour pre-supervisory meeting; 1 x 1-hour dissertation writing seminar; 2 x 1-hour supervisory meetings; 1 x 2-hour presentation seminar; 1 x 1-hour review meeting.			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L Moretti			
Module teaching staff:	Team taught			

AH4108 Post-war Scottish Art 1950-present				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Tue (lecture), and either 11.00 am or 12.00 noon Fri (seminar)			
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			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 11 weeks), fieldtrip - 8 hours			
	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: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr T Normand			
Module teaching staff:	Dr T Normand			

AH4130 Realism and Symbolism in Russian Art 1860 - 1910				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)			
This module examines the development of Russian art from the appearance of 'romantic realism' in the 1820s, through that of 'critical realism' in the mid-nineteenth century to the introduction of symbolist values around 1900. Special emphasis is laid on the relationship of the Academy with the exponents of the new trends. Accepted interpretations will be scrutinised with the various movements and individuals (such as Repin, Surikov, Perov, Vasnetsov, Levitan, Kramskoy, Nesterov and Serov) being studied in relation to social and political demands, patronage, aesthetic theories and the continuing tensions between 'native' traditions and 'western' ideas.				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 11 weeks), fieldtrip - 8 hours			
	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: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr J Howard			
Module teaching staff:	Dr J Howard			

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AH4147 Classicism in Western Art: The Legacy of Greece and Rome				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Thu (lecture) and either 3.00 pm or 4.00 pm Thu (seminar)			
This module examines the role of Greek and Roman civilisation in shaping the arts and ideas of western culture. The topics expand from the Middle Ages to the present day, effectively spanning the main period divisions of art history. Broadly oriented geographically and chronologically, the module considers definitions of the classical, permutations and appropriations of classical forms and ideals, as well as changing attitudes to the classical past. The classical inheritance in terms of both style and iconography is examined in a variety of selected studies drawn from across Europe, focusing mainly on sculpture and painting.				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), field trip – 8 hours			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L Kouneni			
Module teaching staff:	Dr L Kouneni			

AH4148 Orientalism and Visual Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Wed (lecture) and either 9.00 am or 11.00 am Thu (seminar)			
In this module we examine Orientalist art and the culture of travel from a post-colonial perspective. As well as the work of renowned artists including Ingres, Delacroix, Girome, J.F. Lewis, and Matisse we will address photography, international exhibitions, cross-cultural dressing, travel literature and film. Diverse European constructions of the exotic Orient will be examined including the contribution of women Orientalists. In this module, the European canon of Orientalism is resituated through the introduction of counter-narratives and alternative images made by North African and Ottoman artists and patrons.				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 10 weeks), 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours.			
	Scheduled learning: 30 hours		Guided independent study: 270 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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L Gartlan			
Module teaching staff:	Dr L Gartlan			

AH4156 Seeing the Sixties				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<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 for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, 1 x 1-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr A Rider			
Module teaching staff:	Dr A Rider			

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AH4163 Approaches to Modern Sculpture			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2018/9		
Planned timetable:	To be arranged.		
<p>The term 'modern sculpture' might be considered something of a misnomer, because sculpture has frequently been considered the art least well equipped to respond to the pressures of contemporary experience. Yet modernized it was, and during the course of the past 150 years sculpture has undergone an unprecedented number of mutations and reincarnations. This module will explore some of the key attempts to define the hybrid nature of this recalcitrant medium, which we shall be discussing in conjunction with select histories of particular works from the nineteenth century to the present. What expectations has the category of sculpture been asked to fulfil? What critical value is there in continuing to treat this art form as a worthwhile subject of study? And will sculpture remain a relevant reference-point for twenty-first century art practice, or will it quietly expire? Should we attempt resuscitation, or advocate euthanasia? This module will search for some provisional answers.</p>			
Programme module type:	Optional for Art History		
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 11 weeks), fieldtrip - 8 hours		
	Scheduled learning: 30 hours	Guided independent study: 270 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%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr A Rider		
Module teaching staff:	Dr A Rider		

AH4165 Cubism and its Legacies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module explores the making and meanings of Cubism, from the radical deformations of Picasso's proto-Cubist Les Femmes d'Alger to the neo-classicism of the post-war Cubist 'call to order'. We will investigate Picasso's and Braque's close aesthetic partnership between 1908 and 1914, and examine the categories of 'analytic' and 'synthetic' Cubism, collage and construction. However, we will also question the conventional narrative of Cubism as a heroic partnership, extending our focus to public, 'Salon' Cubism; the survival of Cubism after the war; and its impact on sculpture, architecture and the decorative arts up until about 1925. Throughout, questions of style and technique will be grounded in an analysis of institutional frameworks and theoretical debates, revealing the broader cultural influences underlying Cubism's revolutionary formal language.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lecture, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 11 weeks).			
	Scheduled learning: 30 hours		Guided independent study: 270 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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L Goddard			
Module teaching staff:	Dr L Goddard			

AH4166 Histories of Photography (1835 - 1905)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Wed (lecture) and either 9.00 am or 11.00 am Thu (seminar)			
<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			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours.			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L Gartlan			
Module teaching staff:	Dr L Gartlan			

Art History - Honours Level - 2017/8 - August 2017

AH4167 Symbolism, Decadence and Modernity			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2018/9		
Planned timetable:	To be arranged.		
<p>Exploring the Symbolist movement from an international perspective, this module will cover groups including the Nabis, the Italian Divisionists, and the British Aesthetic Movement, setting them in the context of contemporary aesthetic, scientific and social debates. Until recently, histories of Symbolism isolated a few stylistically experimental figures such as Munch, Gauguin and Klimt from the messier melting-pot of misogyny, nationalism and mystical fervour. This module confronts head-on the movement's uncomfortable blend of tradition and modernity, stylistic innovation and thematic obsessions. Students will explore themes including dream and nightmare, spirituality and the occult, nationalism and myth, evolution and degeneration, sexuality and the femme fatale. In the spirit of the fin-de-siecle 'total art work', we will pay particular attention to the crossovers between text and image, and between the 'fine' and 'decorative' arts.</p>			
Programme module type:	Optional for Art History		
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks).		
	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%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr L Goddard		
Module teaching staff:	Dr L Goddard		

AH4182 Principles and Protagonists of Italian Renaissance Architecture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am Mon and 10.00 am Tue (lectures) and either 10.00 am or 11.00 am Wed (seminar)			
<p>At the beginning of the fifteenth century in Florence a new idea took root, which was to change art and society forever: the revival of classical Rome, its culture, its art and architecture. Rejecting the Gothic style, Italian architects adopted a new set of principles to create some of the most wonderful buildings of all time. A new language was coined, and a key set of texts were written, which the architects illustrated. They built their theories on the only treatise remaining from antiquity, which was by the Roman architect Vitruvius. These books circulated widely thanks to the development of the printing industry. During the Renaissance architecture began to emerge as a distinct profession from the other arts. This module sets out to provide students with an in-depth understanding of the principles underpinning the masterpieces of Italian Renaissance Architecture and to develop their skills in 'reading' the work of the most talented artists who created them.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks), 1 tutorial (x 10 weeks) 2 x tutor's office hour (x 11 weeks).			
	Scheduled learning: 30 hours		Guided independent study: 280 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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L Moretti			
Module teaching staff:	Dr L Moretti			

Art History - Honours Level - 2017/8 - August 2017

AH4190 Romanticism and Visuality 1780 - 1830			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	9.00 am Mon and Tue (lectures) and either 9.00 am or 10.00 am Wed (seminar)		
<p>This module examines European romanticism and its relation to a broader field of visual practices. We will explore stylistic transformations in late eighteenth- and early nineteenth-century art and consider how romantic artists responded to a rapidly modernising 'visual culture'. Each unit will examine the work of one artist and ask: what kind of optical technologies and visual media were in use in this period? How was the category of 'the visual' being treated in fields like science and philosophy? What consequences did this have for artistic production? We will study the work of, among others, Anne-Louis Girodet, Francisco Goya, Caspar David Friedrich and J.M.W. Turner. In this module, students will think critically about how vision itself might have a history and what this would mean for artistic representation.</p>			
Programme module type:	Optional for Art History		
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks)		
	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: Coursework = 100%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr S O'Rourke		
Module teaching staff:	Dr S O'Rourke		

AH4191 Art, Science and Technology 1700 - 1900				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)			
<p>This module examines the relationship between art, science, and technology in the eighteenth and nineteenth centuries. Although we will cover a diverse range of practitioners and objects from the Age of Enlightenment through to the rise of the modern era, this module is not a survey in the traditional sense. Instead, we will address a series of thematically grouped topics in loosely chronological order. Sample topics include anatomical diagrams, the chemistry of colour, industrial printmaking, and the prehistory of the cinema. In each case, we will consider the impact these developments had on the visual arts, addressing how artworks were influenced by and, in turn, responded to science and technology. This module will introduce students to key methodologies associated with the histories of science, media, and technology. Throughout the course, students will be encouraged to think critically about how these methods might enhance, challenge, or transform our study of art.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks)			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr S O'Rourke			
Module teaching staff:	Dr S O'Rourke			

Art History - Honours Level - 2017/8 - August 2017

AH4207 Receptions of Venetian Painting 1600 - 1800			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2018/9		
Planned timetable:	To be arranged.		
<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		
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 11 weeks), fieldtrip - 8 hours		
	Scheduled learning: 30 hours	Guided independent study: 270 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%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr E van Kessel		
Module teaching staff:	Dr E van Kessel		

AH4209 Portuguese Renaissance from Local to Global			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2018/9		
Planned timetable:	To be arranged.		
<p>From Brazil to the west coast of Africa to Macau and Japan, the Portuguese of the Renaissance established trading posts around the globe. This module examines how the Portuguese maritime expansion impacted art and architecture at home, as well as how new colonial art forms emerged overseas. We will look at a great variety of objects and art forms, such as Manueline and so-called 'plain' architecture, painting, ivory carving, textiles, tiles, urbanism, and the art of the spectacle. We will analyse the political context of the arts by scrutinising relations with the country's big neighbour, Spain. The aim of the module is not only to become familiar with the artistic heritage of an area of Europe left out of so many art-historical narratives, but also to reflect on what it means to study the arts of the Renaissance from a global perspective.</p>			
Programme module type:	Optional for Art History		
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks)		
	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%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr E van Kessel		
Module teaching staff:	Dr E van Kessel		

AH4211 Islam and the Arts				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 or 4.00 pm Fri (seminar)			
<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			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Prof R Hillenbrand			
Module teaching staff:	Prof R Hillenbrand			

Art History - Honours Level - 2017/8 - August 2017

AH4215 Contemporary Art and the Ethics of Fieldwork				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>The module thinks critically about the ways in which contemporary artists working during the past three decades have repeatedly approached their practice as a form of 'fieldwork' that takes place beyond the walls of studio or gallery, drawing on social science disciplines such as anthropology and ethnography as they do so. We will explore how artists have adopted the role of the fieldworker to achieve formal innovation - by using interviews, surveys, research, and documentary processes - and at a conceptual level to address globalisation, neo-colonialism, ecology, and gender politics, and to develop social art practices that ostensibly aspire to intervene in particular communities. We will analyse how artists working in film and photography, together with social art practice, community-based work, and performance have been particularly drawn to the social sciences, considering the problematic as well as generative aspects of this overlap. While focussing on contemporary art, the module looks back to the complex histories of artistic overlap with anthropology and ethnography, and the way in which these have been continued and confronted in recent curatorial and display strategies.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 4 hours			
	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%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr C Spencer			
Module teaching staff:	Dr C Spencer			

AH4216 Mediaeval Islamic Painting				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 pm or 4.00 pm Fri (seminar)			
<p>The module surveys Islamic painting (mosaics, frescoes, pottery and especially the arts of the book) between c.700 and c.1500 in the Arab and Persian worlds. Major themes to be explored include the interplay between Islamic and classical (including Byzantine) art; the development of the sacred book - the Qur'an - by means of script and illumination; the vexed question of Islamic iconoclasm; the role of pottery as a vehicle for courtly and popular figural art; the evolution of the frontispiece; and the infiltration of ideas from Europe and especially China into Islamic painting. Students will encounter such texts as the Assemblies of al-Hariri, the Quintet of Nizami and Firdausi's Book of Kings, and will study the interplay of text and image, of iconographic cycles and narrative techniques and how the so-called "classical style" in Persian painting emerged.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, 1 x 1-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Prof R Hillenbrand			
Module teaching staff:	Prof R Hillenbrand			

Art History - Honours Level - 2017/8 - August 2017

AH4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2 or whole year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 6,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Art History			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As defined by QAA: As per Letter of Agreement.			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

AH4795 Joint Dissertation (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 10,000 - 12,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors 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:	Optional for Art History			
Pre-requisite(s):	A Letter of Agreement.			
Anti-requisite(s):	Any other dissertation / project module			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As defined by QAA: As per Letter of Agreement.			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

School of Biology

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Biology (BL) modules

BL3000 Field Course			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	1-week residential course in summer vacation normally just prior to Orientation week.		
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, MMarBiol 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, MBiol, Sustainable Development.		
Pre-requisite(s):	BL2300 and (BL2307 or BL2310)	Anti-requisite(s):	BL3321, BL3322
Co-requisite(s):	BL3308 or BL3309		
Learning and teaching methods and delivery:	Weekly contact: 6-day field course, 8-hours per day		
	Scheduled learning: 48 hours		Guided independent study: 52 hours
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Resubmission of failed item(s) of coursework		
Module coordinator:	Prof D Paterson		
Module teaching staff:	Team taught		

Biology - Honours Level - 2017/8 - August 2017

BL3301 Protein Structure and Function			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module builds 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 and MBiochem. Optional for Cell Biology, Behavioural Biology, Biology, Neuroscience, and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2306 and (BL2302 or BL2309)	Required for:	BL4212, BL4215, BL4223
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 3 x 8-hour practicals, and 1 x 4-hour practical, split over several days, during the semester.		
	Scheduled learning: 62 hours	Guided independent study: 138 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr U Schwarz-Linek		
Module teaching staff:	Team taught		

BL3302 Gene Regulation			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
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 and MBiochem. Optional for Behavioural Biology, Biology, Evolutionary Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2302 and (BL2306 or BL2309)	Required for:	BL4223, BL5421
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 3 x 16-hour practicals, split over several days, during the semester.		
	Scheduled learning: 78 hours	Guided independent study: 122 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr S MacNeill		
Module teaching staff:	Team taught		

Biology - Honours Level - 2017/8 - August 2017

BL3303 Membranes and Cell Communication			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module looks at the various ways in which cells communicate with each other. Cell signalling not only involves the creation and reception of signals but also the mechanisms by which signals are transported across biological membranes. We will therefore consider the central role that biological membranes play in the regulation of the movement of molecules between different extracellular, intracellular and transcellular compartments. Also protein sorting and membrane trafficking will be studied. Using various examples of cell communication, the module will discuss both the molecular and the organismal implications of cell signalling. Topics covered include: (i) Lipids; (ii) Protein targeting and sorting; (iii) Membrane trafficking and transport; (iv) Wnt, Notch and Hedgehog signalling; (v) Plant cell signalling; (vi) Hippo signalling (vii) Ubiquitylation and SUMOylation.</p>			
Programme module type:	Compulsory for Cell Biology. Optional for Biochemistry, Molecular Biology Biology, MBiochem and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2301 and (BL2305 or BL2306 or BL2309)	Required for:	BL4224, BL5420
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 3 x 7-hour practicals, split over several days during the semester.		
	Scheduled learning: 54 hours	Guided independent study: 146 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr M Bischoff		
Module teaching staff:	Team taught		

BL3307 Evolution				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lectures: 11 am Mon, Tue and Wed Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for, Marine Biology, Evolutionary Biology. Optional for Ecology and Conservation, Behavioural Biology, Biology, Zoology, MBiol, MMarBiol and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2303			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 1 x 2-hour and 1 x 3-hour practical during the semester.			
	Scheduled learning: 35 hours		Guided independent study: 165 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%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Prof T Meagher			
Module teaching staff:	Team taught			

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BL3308 Aquatic Ecology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed Practicals: residential field trip.		
<p>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.</p>			
Programme module type:	Compulsory for Marine Biology and MMarBiol. Optional for Behavioural Biology, Ecology and Conservation, Biology, Biology and Geology, Evolutionary Biology, Sustainable Development, Zoology, MBiol and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2307		
Co-requisite(s):	BL3000	Required for:	BL4301
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 1 x 3-day residential field course		
	Scheduled learning: 50 hours	Guided independent study: 150 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr I Matthews		
Module teaching staff:	Team taught		

BL3309 Ecosystems and Conservation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	<p>Compulsory for Ecology and Conservation, Marine Biology, Behavioural Biology and MMarBiol.</p> <p>Optional for Biology, Biology and Geology, Evolutionary Biology, Sustainable Development, Zoology, MBiol and all Biology Joint or Major/Minor Degree programmes.</p>			
Pre-requisite(s):	BL2307 and (BL2303 or BL2304 or BL2308)			
Co-requisite(s):	BL3000	Required for:	BL4254, BL4266, BL4268	
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 2 x 3- hour practicals during the semester.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Prof W Cresswell			
Module teaching staff:	Team taught			

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BL3310 Bioenergetics			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
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, MBiochem and Biomolecular Science. Optional for Molecular Biology Cell Biology Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2302 or BL2306	Required for:	BL4222
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 2 x 6-hour practicals, split over 2 days, and 2 x 3-hour student presentation seminars, during the semester.		
	Scheduled learning: 51 hours	Guided independent study: 149 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr J Nairn		
Module teaching staff:	Team taught		

BL3311 Infection and Disease			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
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 and MBiochem. Optional for Biochemistry, Cell Biology, Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2301 and BL2309	Required for:	BL4211, BL4213
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 2 x 9-hour practicals and 1 x 12-hour practical, split over several days, during the semester		
	Scheduled learning: 63 hours	Guided independent study: 137 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr P Coote		
Module teaching staff:	Team taught		

BL3315 Developmental Biology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Optional for Neuroscience, Biology, Cell Biology, Evolutionary Biology, Marine Biology, Zoology, MBiol, MMarBiol and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	2 of (BL2301, BL2302, BL2304, BL2308)			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x11 weeks) and 2 x 15-hour practicals, split over several days, during the semester.			
	Scheduled learning: 63 hours		Guided independent study: 137 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%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr D Ferrier			
Module teaching staff:	Team taught			

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BL3316 Animal Plant Interactions			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lectures: 12.00 noon 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, Biology, Ecology and Conservation, Evolutionary Biology, Sustainable Development, Zoology, MBiol, MMarBiol and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2304 or BL2307 or BL2310		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks), 1 x 3- hour practical and 1 x 3-hour student presentation seminar during the semester.		
	Scheduled learning: 39 hours	Guided independent study: 161 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Prof P Willmer		
Module teaching staff:	Team taught		

BL3318 Biology of Marine Organisms				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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:	<p>Compulsory for Behavioural Biology, Ecology and Conservation, Marine Biology and MMarBiol.</p> <p>Optional for Biology, Evolutionary Biology, Sustainable Development, Zoology, MBiol and all Biology Joint or Major/Minor Degree programmes.</p>			
Pre-requisite(s):	3 of BL2304 or BL2307 or BL2308 or BL2310			
Required for:	BL4257, BL4259, BL4260, BL4301			
Learning and teaching methods and delivery:	<p>Weekly contact: 3 x 1-hour lectures (x 11 weeks), 2 x 3-hour practicals and 1 x 1-hour Museum quiz during the semester.</p>			
	<p>Scheduled learning: 40 hours</p>		<p>Guided independent study: 160 hours</p>	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%</p>			
	<p>As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%</p>			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr V Smith			
Module teaching staff:	Team taught			

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BL3319 Animal Behaviour: A Quantitative Approach			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
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 Biology, Evolutionary Biology, Marine Biology, Zoology, MBiol, MMarBiol and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2303 or BL2307	Required for:	BL4258, BL4263
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks), 3 x 1- hour mini-project group meetings during the semester.		
	Scheduled learning: 36 hours	Guided independent study: 164 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%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr M Webster		
Module teaching staff:	Team taught		

BL3320 Statistical and Quantitative Skills for Biologists				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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. Optional for Sustainable Development.			
Pre-requisite(s):	BL2300	Required for:	BL4273	
Learning and teaching methods and delivery:	Weekly contact: Varied weekly contact, but to include 1 full-day of lectures in Pre-session week (8-hours), plus 2 x 3-hour introductory workshops and 5 x 3-hour practical workshops during the semester			
	Scheduled learning: 29 hours		Guided independent study: 71 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%			
Re-assessment pattern:	2-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Prof W Cresswell			
Module teaching staff:	Team taught			

BL3321 Advanced Critical Analysis Reading Party				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	1 week in summer vacation just prior to Orientation week			
<p>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.</p>				
Programme module type:	Optional for Cell Biology, Evolutionary Biology, Neuroscience, MBiol and all Biology Joint and Major/Minor degree programmes			
Pre-requisite(s):	4 of (BL2300 - BL2310)	Anti-requisite(s):	BL3000, BL3322	
Co-requisite(s):	Any 3000-level BL module	Required for:		
Learning and teaching methods and delivery:	Weekly contact: 5-day residential course, 8-hours per day			
	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%			
Re-assessment pattern:	Resubmission of failed item(s) of coursework			
Module coordinator:	TBC			
Module teaching staff:	Team taught			

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BL3322 Basic Biochemistry Laboratory			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	1 week in summer vacation just prior to Orientation week		
<p>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.</p>			
Programme module type:	Compulsory for Biochemistry, Molecular Biology single honours degrees and MBiochem integrated masters degree Optional for Cell Biology, Biology and joint honours degrees		
Pre-requisite(s):	BL2301 or BL2302 or BL2306	Anti-requisite(s):	BL3000, BL3321
Learning and teaching methods and delivery:	Weekly contact: 5-day laboratory course, 8-hours per day		
	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%		
Re-assessment pattern:	1-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr R R Ramsay		
Module teaching staff:	Team taught		

BL3323 Terrestrial Zoology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Mon, Tue, Wed. Practicals: to be arranged.			
<p>This module covers the biology of land animals, including their early evolution, their strategies to cope with unusual terrestrial habitats (extremes of hot, arid and cold, urban life, island life, etc, including climate change effects), and their special problems with reproduction and locomotion. It then looks at insights gained from modern techniques, including molecular, bioinformatics and bar-coding approaches, bio-logging and tracking, and developmental adaptations. It concludes with special topics on particular animals or groups that have improved our understanding of terrestrial peculiarities, whether behavioural, sensory, physiological, mechanical, metabolic or ecological; and of threats to terrestrial diversity for certain groups.</p>				
Programme module type:	Compulsory for Zoology Optional for BSc Hons Behavioural Biology, Biology, Evolutionary Biology, Ecology & Conservation and Neuroscience degrees, MBiol degree and all Biology joint honours degrees.			
Pre-requisite(s):	BL2304 and BL2308			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks); 1 x 3-hour and 1 x 4-hour practicals.			
	Scheduled learning: 37 hours		Guided independent study: 163 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 14%, Coursework = 20%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%, module grade capped at 7.			
Module coordinator:	Prof P G Willmer			
Module teaching staff:	Team taught			

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BL4200 Literature-based Research Project			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
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:	All Biology BSc Single Honours Degrees 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.		
Pre-requisite(s):	Permission of Biology Honours Adviser required	Anti-requisite(s):	BL4201, 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: 278 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))		
Re-assessment pattern:	Resubmission of failed item(s) of Coursework		
Module coordinator:	Prof O Gaggiotti		
Module teaching staff:	Individual Supervisors across the School of Biology		

BL4201 Experimental Research Project			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>This project will involve extensive laboratory or field research to investigate a defined problem within biology, appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Biology who will guide and advise them in research activities throughout the academic year.</p>			
Programme module type:	All Biology BSc Single Honours Degrees Optional for all Biology Joint or Major/Minor Degree programmes. May be taken for Biomolecular Science (conditions apply)		
Pre-requisite(s):	Permission of Biology Honours Adviser required	Anti-requisite(s):	BL4200, 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%		
Re-assessment pattern:	Resubmission of failed item(s) of Coursework		
Module coordinator:	Prof O Gaggiotti		
Module teaching staff:	Individual Supervisors across the School of Biology		

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BL4210 Practical Skills for Molecular Biology and Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>Practical skills are the core of research in biochemistry and molecular biology. This module is designed to prepare students for laboratory research projects in internationally competitive research. The module is designed to foster skills such as experimental design, core practical skills, data analysis and excellent record keeping. Each practical requires some prior theoretical familiarity. Emphasis is placed upon experimental design - notably anticipation of experimental outcomes and the choice of appropriate experimental controls. This planning phase is followed by execution of the experiment and analyses of the data.</p>				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology Optional for Cell Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: Occasional seminars and 3 blocks of practicals conducted over several days.			
	Scheduled learning: 35 hours		Guided independent study: 115 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%			
Re-assessment pattern:	1-hour Written Examination = 30%, Existing Coursework = 70%			
Module coordinator:	Dr M Nevels			
Module teaching staff:	Dr M Nevels, Prof M White			

BL4211 Antimicrobials - Mode of Action and Resistance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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: 2 x 1-hour seminars (x 9 weeks).			
	Scheduled learning: 18 hours		Guided independent study: 132 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%			
Re-assessment pattern:	1-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Dr P Coote			
Module teaching staff:	Dr P Coote			

BL4212 How Enzymes Work				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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: 1 x 2-hour seminars (x 10 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr R R Ramsay			
Module teaching staff:	Dr R R Ramsay, Prof M White			

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BL4213 Molecular Virology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
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: 2 x 1-hour seminars (x 5 weeks), 1 x 1-hour seminar (x 2 weeks), 2 x 3-hours seminars across the semester		
	Scheduled learning: 18 hours	Guided independent study: 132 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%		
Re-assessment pattern:	3-hour Written Examination = 60%, Existing Coursework = 40%		
Module coordinator:	Prof R Randall		
Module teaching staff:	Team taught		

BL4215 Bacterial Virulence Factors				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
In order to establish an infection in a host, pathogenic bacteria rely on mechanisms to adhere to host tissue, gain entry into cells, escape the host's immune response and spread and survive within or on the host. These processes are mediated by bacterial virulence factors, i.e. proteins and other bacterial products that utilise and subvert diverse host cellular processes for the benefit of the pathogen. In this module students will explore how structural biology has led to significant breakthroughs in understanding the molecular bases of some important bacterial infections.				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3301			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lecture (x 5 weeks), 3 x 3-hour student talks			
	Scheduled learning: 19 hours		Guided independent study: 131 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%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr U Schwarz-Linek			
Module teaching staff:	Dr U Schwarz-Linek			

BL4216 Structure-based Drug Discovery				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The process of developing a new drug from conception to the clinic takes on average 15 years and costs over \$800M. There are now many examples of drugs developed based on a knowledge of the three dimensional structure of the target, and all major pharmaceutical companies have structural biology as part of their core drug discovery programmes. Many drugs currently used to combat AIDS were developed from a detailed knowledge of key HIV proteins, as were the two drugs used for influenza. Most major pharmaceutical companies are targeting kinases in the search for new cancer therapies, with international efforts focusing on producing structural details of huge numbers of human kinases. This module will examine case studies of drugs that have been developed with the aid of structure-based methods.				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 4 weeks) and 1 x 2-hour student presentations in teams representing imaginary drug companies (x 3 weeks).			
	Scheduled learning: 14 hours		Guided independent study: 136 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%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr J Nairn			
Module teaching staff:	Dr T Gloster, Prof G Taylor, Dr J Nairn			

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BL4222 Metabolic and Clinical Biochemistry			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
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):	Permission of Biology Honours Adviser required		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 9 weeks), 2 x 3-hour students presentations for 1 week		
	Scheduled learning: 24 hours	Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 35%, Coursework = 35%		
	As used by St Andrews: 1.5-hour Written Examination = 30%, Coursework = 70%		
Re-assessment pattern:	1.5-hour Written Examination = 30%, Existing Coursework = 70%		
Module coordinator:	Dr G Prescott		
Module teaching staff:	Dr G Prescott, Dr R Ramsay and invited NHS staff		

BL4223 Molecular and cell biology of eukaryotic DNA replication			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
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 BL3302		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 60%, Existing Coursework = 40%		
Module coordinator:	Dr S A MacNeill		
Module teaching staff:	Dr S A MacNeill		

BL4224 Molecular Mechanisms of Membrane Trafficking				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Dr G Prescott			
Module teaching staff:	Dr G Prescott, Dr J Tilsner			

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BL4232 Neuroethology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>Neuroethology is the study of the neural control of natural animal behaviour from a comparative biological perspective. In this module we focus mainly on behaviours arising from the interactions between predators and their prey. Predators and 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):	BL2101 (or equivalent)		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)		
	Scheduled learning: 20 hours	Guided independent study: 130 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%		
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%		
Module coordinator:	Dr W J Heitler		
Module teaching staff:	Dr W Heitler, Prof K Sillar		

BL4249 Scientific Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	Full Time 2-3 weeks in January/February			
<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. There are additional costs attached to this module which the student will be expected to meet.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Sustainable Development, 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: 8 hours per day for 2 weeks.			
	Scheduled learning: 96 hours		Guided independent study: 54 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 45%, Coursework = 55%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr C Peddie			
Module teaching staff:	Dr C Peddie, Dr M Dornelas			

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BL4251 Tropical Marine Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The goal of this module is to examine the ecological and biological principles underpinning the major tropical marine ecosystems. The module provides an understanding of the ecological processes that control tropical marine ecosystems, and considers the organisms that are characteristic of each. All the major tropical marine habitats will be considered, but with a focus on coral reef, seagrass and mangrove ecosystems. The module also tackles topical research areas on the subject through student-led seminars, which will vary depending on the latest scientific research and the specific interests of participants.</p> <p>On completion of the module, students will have an understanding of coral reef, mangrove and seagrass ecology. They will understand the biology and physiology of corals and be able to identify the major phyla associated with tropical marine ecosystems. The module will also provide an understanding of the threats to tropical marine habitats, current research trends on tropical marine systems, and the scientific approaches and techniques used to tackle scientific questions relating to tropical marine biology.</p>				
Programme module type:	Optional for Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes. Optional for Sustainable Development.			
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 = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr C Peddie			

BL4254 Fisheries Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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, Sustainable Development and all Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3309			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 45%, Coursework = 25%			
	As used by St Andrews: 1.5-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1.5-hour Written Examination = 30%, Existing Coursework = 70%			
Module coordinator:	Dr C Paxton			
Module teaching staff:	Dr C Paxton			

BL4255 Marine and Environmental Biotechnology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module will examine the diversity of useful natural products or services that are derived from marine organisms or other natural environments. In particular it will cover a variety of novel compounds of pharmaceutical or nutraceutical value considering also the process from bio-prospecting through the drug discovery pipeline to clinical use. In addition the module will examine other compounds and processes from marine and environmental sources that have application in ways. These include biotechnology in aquaculture and environmental management, bioengineering and sustainable use of natural resources through biotechnology. The societal, ethical and environmental issues associated with technical exploitation of the natural environment are also considered. Learning and assessed work are designed to foster creativity and ingenuity, and to present a 'business-facing' aspect of biology.</p>				
Programme module type:	Optional for Biochemistry, Ecology and Conservation, Marine Biology, Molecular Biology, Sustainable Development and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Practical Examinations = 30%, Coursework = 70%			
Re-assessment pattern:	Resubmission of failed element of Coursework			
Module coordinator:	Dr V J Smith			
Module teaching staff:	Dr V J Smith			

BL4256 Marine Bioacoustics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 7 x 2-hour seminars, 8 x 1-hour seminars and 2 x 3-hour practical over a 4 week period			
	Scheduled learning: 28 hours		Guided independent study: 122 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%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof P Tyack			
Module teaching staff:	Prof P Tyack, Prof V Janik			

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BL4258 Foraging in Marine Mammals			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Marine Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL3319		
Learning and teaching methods and delivery:	Weekly contact: Introductory lecture plus 3 x 1-hour lectures (x 3 weeks), 2 x 2-hour student-led seminars (x 4 weeks)		
	Scheduled learning: 26 hours	Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%		
Module coordinator:	Prof P Miller		
Module teaching staff:	Prof P Miller, Dr S Smout, Dr D Thompson		

BL4259 Marine Mammals and Man			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>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.</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: 12 x 2-hour seminars over two weeks followed by 4 x 3-hour presentation assessment sessions at the end of the semester.		
	Scheduled learning: 36 hours	Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Resubmission of failed item(s) of Coursework		
Module coordinator:	Prof P S Hammond		
Module teaching staff:	Prof P S Hammond, Dr S Northridge, Dr A Hall, Dr Gordon		

BL4260 Biological Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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: 10 x 2-hour seminars (x 6 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Prof P Miller			
Module teaching staff:	Prof P Miller			

BL4262 Environmental Drivers of Marine Habitats				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module aims to give a broad overview of the different environmental drivers of marine ecosystems. Shorter term processes in the ocean and atmosphere as well climate define marine habitats and a series of lectures will be provided to assure that students have the broad background required to tackle primary literature in this field and can apply their knowledge within different fields of marine science. Students will present on particular focus areas within each lecture topic, based upon reading primary literature.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Sustainable Development and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 2 x 2-hour seminar or lecture (x 5 weeks)			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	Dr L Boehme			
Module teaching staff:	Dr L Boehme			

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BL4263 The Question of Culture in Cetaceans				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The existence and extent of social learning and cultural transmission in non-humans is a very active area of current research, as well as of controversy, with an active ongoing debate. The aim of this module is to provide an introduction to this area through considering the conceptual issues and direct and indirect evidence for cultural transmission in cetaceans, the whales and dolphins. We will consider what is meant by the term 'culture', how it can be studied in non-humans, and the evidence for and against such processes being present in cetacean societies.</p>				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Zoology and all Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3319			
Learning and teaching methods and delivery:	Weekly contact: 10 x 2-hour seminars over 6 weeks			
	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: 1.5-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr L Rendell			
Module teaching staff:	Dr L Rendell			

BL4266 Conservation Research Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The conservation of animal and plant populations relies initially on information of population sizes and trends. This information can only be collected by fieldwork. This module teaches the basic field techniques that underpin the monitoring of populations. Each week the theory behind a different technique is introduced, then the technique is practiced in the field, and finally data collected by the technique are analysed and discussed in a workshop at the end of the week, so that a full understanding of a technique and its proper application is gained. The module ends with students carrying out a project applying and integrating the techniques they have learnt.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Sustainable Development, Zoology, and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3309			
Learning and teaching methods and delivery:	Weekly contact: Variable combination of lectures, field practicals, data collection in the field and analysis workshops per week for 10 weeks			
	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%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof W Cresswell			
Module teaching staff:	Prof W Cresswell			

BL4268 Scientific Communication in Biodiversity and Conservation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3309			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks) plus 6 additional 2-hour lectures during the semester			
	Scheduled learning: 34 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr M Dornelas			
Module teaching staff:	Dr M Dornelas			

BL4270 Plant-environment Interactions				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module will provide an analysis of the ways in which plants interact with their physical, chemical and biological environments. This is a wide-ranging course which will bring together current knowledge of the physiological and molecular responses of plants within the wider context of how whole organisms and communities respond to the environment. Topics include: parasitism, plant pathogens and diseases, symbioses, plant stress responses, and human influences such as pollution, bioremediation and genetic modification.				
Programme module type:	Optional for Cell Biology, Ecology and Conservation, Sustainable Development and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks), plus 1 x additional seminar			
	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%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr J Jones			
Module teaching staff:	Dr J Jones			

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BL4274 Evolutionary Developmental Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	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%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr D Ferrier			
Module teaching staff:	Dr D Ferrier, Dr I Somorjai			

BL4275 Evolution in Action				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks) plus an additional 2 x 2-hour seminars.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof T R Meagher			
Module teaching staff:	Prof T R Meagher			

BL4278 Biology of Dinosaurs and Other Extinct Vertebrates				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
It seems natural to use our understanding of extant biology to make inferences about the past. This allows us to test ideas about evolution and biodiversity in a wider context. Additionally, "rewilding" is an active but controversial strand of conservation biology that suggests that where "keystone" species have gone extinct, we should introduce an analogous species. Vertebrates fossilise well, and so offer a good foundation of source material. They are generally large and complex organisms, and we particularly focus on the large representatives of each taxonomic group; this allows us to explore the physical constraints on the functioning of organisms.				
Programme module type:	Optional for Evolutionary Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof G Ruxton			
Module teaching staff:	Prof G Ruxton			

BL4280 Evolution and Human Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
Evolutionary biologists, anthropologists and psychologists have taken evolutionary principles and used them to explain a range of human characteristics, such as homicide, religion and sex differences in behaviour. Other researchers are sceptical of these interpretations, and critical of the methods. Moreover, researchers disagree as to the best ways to use evolution to explore humanity, and a number of schools of thought have emerged. This module will introduce and critically evaluate the main evolutionary approaches currently being used, including socio-biology, evolutionary psychology, behavioural ecology and gene-culture co-evolution.				
Programme module type:	Optional for Behavioural Biology, Evolutionary Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr M Webster			
Module teaching staff:	Dr M Webster, Dr K Cross, Dr L Dean, Dr C Evans, Dr A Navarrete			

Biology - Honours Level - 2017/8 - August 2017

BL4281 Animal Communication and Cognition				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
Learning to produce sounds is a particularly interesting subject as far as humans are concerned because it is such a notable feature of our own species. Why do we show it, and how did it evolve? As there is little evidence of it in any other primates we need to look further afield for clues. It is found in several other mammalian orders and in three orders of birds, and the evidence for it and nature of it will be examined in these examples. We will discuss why selection may have favoured it in each case. We will also consider vocal learning in a broader sense, including its use in animals that do not themselves produce sounds.				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Sustainable Development, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof V Janik			
Module teaching staff:	Prof V Janik, Dr T Gotz			

BL4282 Biology and Behaviour of Social Insects				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module will examine and compare the biology of the four main groups of social insects: termites, ants, wasps and bees. Sociality in other groups (aphids, beetles) will also be considered briefly. Topics will include the evolution of sociality, social organisation and social control systems, reproductive strategies, and diverse communication modes including pheromonal systems, acoustic systems, and 'bee dances'. Aspects of foraging behaviour and learning abilities will also be considered, particularly for ants (leaf cutter ants, army ants, slave-making ants) and for bees both eusocial and semi-social. There will be strong evolutionary, ecological and behavioural themes, and relevance also to conservation issues.				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar (x 11 weeks).			
	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%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof P Willmer			
Module teaching staff:	Prof P Willmer, Dr A Gardner, Dr G Ballantyne			

BL4285 Complex Systems in Animal Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
Behaving animals form complex systems, and can create complicated and beautiful phenomena, such as flocks of birds, termite nests, and patterns of army ant swarms. This course will look at research that examines animal behaviour from a complex systems perspective, where analyses range from captive housing of entire bird flocks, computer simulation, and use of robots to interact with the animals. Introductory lectures will be followed by seminar-style discussion of the primary literature, computer practicals, and hands-on practicals where students will identify complex systems in animal behaviour around St Andrews.				
Programme module type:	Optional for Ecology and Conservation, Behavioural Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Permission of Biology Honours Adviser required			
Learning and teaching methods and delivery:	Weekly contact: 14 x 1-hour seminars plus 4 x 2-hour computer-based practical classes over 8 weeks			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	2-hour Written Examination = 25%, Existing Coursework = 75%			
Module coordinator:	Dr V A Smith			
Module teaching staff:	Dr V A Smith			

BL4286 Advanced Topics in Evolution				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
In this module, we will consider outstanding questions in modern Evolutionary Biology to develop a detailed understanding of research issues in this field. Both molecular and whole organismal approaches will be addressed. Topics will be based on classic papers in the literature raising theoretical questions about the origin of species, adaptation, genetic drift and natural and sexual selection. Each classic paper will be combined with a recently published study addressing one of these theoretical topics. We will use tutorials and student-led seminars to address the topics in detail. The result will be an exciting opportunity to tackle classic topics in evolution and learn how the very latest research addresses these issues.				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology and all Biology Joint or Major/Minor Degree programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof M Ritchie			
Module teaching staff:	Dr N Bailey, Prof M Ritchie			

Biology - Honours Level - 2017/8 - August 2017

BL4301 Polar Ecology: A field course in Antarctica			
SCOTCAT Credits:	15	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	To be confirmed		
Planned timetable:	To be arranged.		
<p>This module will provide a theoretical and practical introduction to the marine ecology of Antarctica with emphasis on marine top predators (sea birds and marine mammals), 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 of whales, seals and sea birds 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, 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> <p>Participating students will need to cover all logistic expenses via payment of a substantial expedition fee.</p>			
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Sustainable Development 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: 2.5-week field trip involving extensive travel and 100 hours of contact time on the ship		
	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%		
Re-assessment pattern:	Resubmission of failed item(s) of Coursework		
Module coordinator:	Dr S Heinrich		
Module teaching staff:	Dr S Heinrich, Dr L Boehme		

BL4601 Research Project Development and Methodology				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on the MBiochem, MBiol and MMarBiol degree programmes			
Planned timetable:	Distance learning during 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 the biosciences, 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, MBiol, MMarBiol.			
Pre-requisite(s):	Approved entry on to the MBiochem, MBiol or MMarBiol degree programmes			
Required for:	BL5410			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr J Nairn			
Module teaching staff:	Dr J Nairn, Dr G Prescott, Dr A Smith, Prof M Ryan, Dr U Schwarz-Linek			

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BL4602 External Research Placement				
SCOTCAT Credits:	100	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on the MBiochem, MBiol and MMarBiol degree programmes			
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 the MBiochem, MBiol and MMarBiol degree programmes			
Pre-requisite(s):	Approved entry on to the MBiochem, MBiol or MMarBiol degree programmes			
Required for:	BL5410			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr J Nairn			
Module teaching staff:	Individual Supervisors across the School of Biology			

BL5410 Advanced Topics in Biomolecular Sciences				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module will allow you to develop in-depth knowledge of research that is at the forefront of modern biomolecular sciences. You will hear about and discuss current research taking place within the School of Biology through tailored seminars and by attending the School seminar series. You will then have the opportunity to study one of these areas in depth as you write a review article on the subject area. You will then consider how to develop your research area into a funding application and into an industrial business plan. Your learning throughout the module will be supported by 1:1 tutorials that will guide the development of your review article and research proposals.				
Programme module type:	Compulsory for MBiochem programme			
Pre-requisite(s):	BL4601 and BL4602			
Learning and teaching methods and delivery:	Weekly contact: 2 x 2-hour seminars (x 7 weeks), 1-hour tutorial (x 7 week), 1.5-hour seminar/discussion session (x 22 weeks)			
	Scheduled learning: 68 hours		Guided independent study: 232 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr J Tilsner (Semester 1) and Dr R Guimaraes da Silva (Semester 2)			
Module teaching staff:	Team taught			

BL5420 Advanced Microscopy and Image Analysis - Seeing is Believing				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module will introduce you to advanced imaging techniques, such as Confocal, Super-resolution, TIRF and Electron Microscopy and how these techniques have been utilised to address fundamental questions in Cell and Developmental Biology. You will get the opportunity to research techniques that are at the forefront of modern Biology and to develop skills in ImageJ analysis of imaging data, a skill that will be central to the advancement of bioscience in the coming years. Activities will be supplemented with research talks from academics at the cutting edge of their field and the opportunity to see advanced imaging techniques in practice.				
Programme module type:	Optional for the MBiochem. Optional for Biochemistry, Cell Biology and Molecular Biology BSc (Hons) Degree programmes.			
Pre-requisite(s):	BL3303 and/or BL3315			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 9 weeks) and 2 x 2-hour seminar (x 1 week)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 30%, Coursework = 50%			
	As used by St Andrews: 1.5-hour Written Examination = 20%, Coursework = 80%			
Re-assessment pattern:	1.5-hour Written Examination = 20%, Existing Coursework = 80%			
Module coordinator:	Dr M Bischoff			
Module teaching staff:	Team taught			

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BL5421 Chromatin and Genome Stability			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>This module will introduce you to the fundamental concepts of chromatin structure and function and how this affects genome stability. DNA repair and telomere maintenance are perhaps the most significant factors affecting genome stability and these processes are central to the understanding of cancer cell biology. Indeed, most existing anti-cancer agents induce DNA damage and current efforts to target chromatin factors therapeutically are showing promise. You will have the opportunity to independently research and present seminars on the applied biology of chromatin and DNA repair within model organisms such as budding yeast, <i>Caenorhabditis elegans</i> and <i>Drosophila melanogaster</i>. The seminars and student presentations will be supplemented with guest lectures from scientists at the cutting edge of chromatin research and students will also have the opportunity to engage in research debates on topics at the forefront of modern cancer biology. Importantly, you will be expected to design and defend a research proposal that addresses an unsolved question of your choice within the field of genome stability.</p>			
Programme module type:	Optional for the MBiochem. Optional for Biochemistry, Cell Biology and Molecular Biology BSc (Hons) Degree programmes.		
Pre-requisite(s):	BL3302		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.		
	Scheduled learning: 22 hours	Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 25%, Coursework = 55%		
	As used by St Andrews: 1.5-hour Written Examination = 20%, Coursework = 80%		
Re-assessment pattern:	1.5-hour Written Examination = 20%, Existing Coursework = 80%		
Module coordinator:	Dr H Ferreira		
Module teaching staff:	Dr H Ferreira		

BL5440 Major Review Paper in Evolutionary Biology				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
Students will prepare a major review paper, reviewing a current topic in evolutionary biology. Extensive one-to-one work with staff will afford students the opportunity to produce a highly polished article. The paper will be submitted for peer (classmate) review, and will receive editorial guidance on changes from staff before a final version is submitted.				
Programme module type:	Optional for all Biology degrees			
Pre-requisite(s):	BL2105 and BL3307, possible exceptions on discretion of instructors			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 5 weeks), 1-hour tutorial (week 3,4,6)			
	Scheduled learning: 13 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr M Morrissey			
Module teaching staff:	Dr M Morrissey, Dr A Gardner, Prof O Gaggiotti			

BL5441 Animal Cognition				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
In this module we will investigate the cognitive abilities of animals, with particular interest in understanding the adaptive value of those abilities. This means that although we will develop an understanding of animal cognition based on standard animal models (typically rats and pigeons), we will extend those principles to addressing cognitive abilities in 'real' animals behaving in the 'real' world. We will use Shettleworth's book, already the key animal cognition text, as our starting point with student-led seminars providing breadth by presenting examples from the recent burgeoning of literature on non-model animals. The result will be a stimulating opportunity to develop a critical understanding of how animals perceive their world, how their cognitive abilities are shaped by that world and how those abilities lead to reproductive success.				
Programme module type:	Optional for Biology, Behavioural Biology, Biology & Psychology, Ecology & Conservation, Environmental Science (& assoc'd), Evolutionary Biology, Marine Biology, and Zoology Honours Programmes.			
Pre-requisite(s):	BL3319			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 10 weeks),			
	Scheduled learning: 20 hours		Guided independent study: 132 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%, Presentation = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Healy			
Module teaching staff:	Dr S Healy			

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BL5499 Advanced Laboratory Research Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Planned timetable:	variable, as needed			
<p>This project will involve extensive and advanced laboratory work to investigate a defined problem within biochemistry, appropriate to the MBiochem degree. The project will involve initiative and independence in experimental design and in pursuing the literature, excellent experimental and analytical techniques. The project will begin with an assessed project proposal and culminate in the production of a high-quality dissertation that integrates an awareness of the project subject and a critical, extensive and detailed knowledge of the relevant theories, concepts and principals. 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. The project will be presented in the form of a proposal, a research dissertation, an oral presentation and a viva.</p>				
Programme module type:	Compulsory for MBiochem			
Pre-requisite(s):	BL4601 and BL4602			
Learning and teaching methods and delivery:	Weekly contact: 1 dedicated meeting with supervisor per week.			
	Scheduled learning: 33 hours		Guided independent study: 567 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr C Adamson			
Module teaching staff:	Individual Supervisors across the School of Biology			

ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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 BSc 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%			
Re-assessment pattern:	No Re-Assessment available			
Module coordinator:	Dr S Mikhail and Dr T Raub			
Module teaching staff:	Dr T Raub			

School of Chemistry

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Chemistry (CH) modules

CH3431 Chemistry Workshop				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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 External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics, Materials Chemistry, 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):	Passes in at least two of CH2501, (CH2601 or CH2603) and CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 or 2 lectures, and occasional tutorials, through afternoons of Semester 1 and afternoons (weeks 1 - 7) of Semester 2.			
	Scheduled learning: 46 hours		Guided independent study: 54 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%			
	As used by St Andrews: 5 Practical Examinations, total 7.5 hours = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R A Aitken			
Module teaching staff:	Dr R A Aitken, Dr T Lebl, Prof M Buehl, Prof P Lightfoot, Prof W Zhou, Prof P A Wright, Prof D Philp, Dr C H Botting, Prof S E M Ashbrook			

Chemistry - Honours Level - 2017/8 - August 2017

CH3441 Mini Chemistry Project			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	9.00 am - 12.30 pm Mon - Fri for 5 weeks (Weeks 7 - 11).		
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.		
Pre-requisite(s):	Passes in at least two of CH2501, (CH2601 or CH2603) and CH2701		
Learning and teaching methods and delivery:	Weekly contact: 3.5-hours x 5 days (Weeks 7 - 11)		
	Scheduled learning: 88 hours	Guided independent study: 112 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%		
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework		
Module coordinator:	Dr M L Clarke		
Module teaching staff:	A selection of the Academic Staff		

CH3512 Organometallic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics. Optional for Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603) and CH2701			
Learning and teaching methods and delivery:	Weekly contact: 1 - 3 lectures per week over 5 - 7 weeks (Weeks 1 - 7) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	TBC			
Module teaching staff:	Dr P Webb			

Chemistry - Honours Level - 2017/8 - August 2017

CH3513 Chemistry of Materials			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
This module brings together a number of advanced concepts including advanced crystal chemistry, extended defects, semiconductor band theory and properties, phase equilibria and phase transformations. It is key to the understanding of many aspects of modern materials science.			
Programme module type:	Compulsory for Chemistry and Geology, Materials Chemistry, Materials Chemistry with External Placement. Optional for Chemical Sciences.		
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603) and CH2701		
Required for:	CH5716		
Learning and teaching methods and delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr P A Connor		
Module teaching staff:	Dr P A Connor, Dr R T Baker		

CH3514 Physical Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 Chemistry, Materials Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement, Materials Chemistry with External Placement, Chemistry and Physics. Optional for Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603) and CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks within Weeks 1 - 11 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr B E Bode			
Module teaching staff:	Dr B E Bode, Dr E Zysman-Colman			

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CH3521 Inorganic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 12.30 pm (Weeks 1 - 5)			
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, 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			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603) and CH2701			
Learning and teaching methods and delivery:	Weekly contact: Daily 3.5-hour morning practical classes (Weeks 1 - 5).			
	Scheduled learning: 88 hours		Guided independent study: 12 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr P Kilian			
Module teaching staff:	Dr P Kilian, Dr E Zysman-Colman, Dr A Stasch, Dr B Chalmers			

CH3612 Synthetic Methodology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 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			
Pre-requisite(s):	Passes in (CH2601 or CH2603) and at least one of CH2501 and CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof N J Westwood			
Module teaching staff:	Prof N J Westwood, Dr M L Clarke			

CH3613 Carbohydrate and Nucleic Acid Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 Chemical Sciences.			
Pre-requisite(s):	Passes in (CH2601 or CH2603) and at least one of CH2501 and CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr G J Florence			
Module teaching staff:	Dr G J Florence, Dr E R Kay			

Chemistry - Honours Level - 2017/8 - August 2017

CH3615 Mechanism in Organic Chemistry			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>The objective of this module is to provide the student with a thorough understanding of the mechanistic aspects of organic chemistry. A problem-solving approach is employed in order to develop the ability to elucidate information, both qualitative and quantitative, concerning reaction mechanisms from experimental data. The module will also focus on the critical role of orbitals in determining the reactivity and selectivity of organic compounds. Reaction mechanism described as a flow of electrons through a correctly aligned orbital manifold will be developed as a tool to explore key topics in synthetic chemistry, with particular emphasis on stereoelectronic effects and aspects of alicyclic chemistry.</p>			
Programme module type:	<p>Compulsory for Biomolecular Science, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Materials Chemistry, Materials Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics.</p> <p>Optional for Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry MChem</p>		
Pre-requisite(s):	<p>Either passes in (CH2601 or CH2603) and at least one of (CH2501 and CH2701), or (CH2501 and CH2701) for students on the Chemistry and Physics programme only</p>		
Learning and teaching methods and delivery:	<p>Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks within Weeks 1-11 and 2 - 3 tutorials in total.</p>		
	<p>Scheduled learning: 17 hours</p>	<p>Guided independent study: 83 hours</p>	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%</p>		
	<p>As used by St Andrews: 2-hour Written Examination = 100%</p>		
Re-assessment pattern:	<p>Oral Re-assessment = 100%</p>		
Module coordinator:	<p>Prof D Philp</p>		
Module teaching staff:	<p>Prof D Philp, Prof A D Smith</p>		

CH3621 Organic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)			
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, Chemistry and Physics. Optional for Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry MChem.			
Pre-requisite(s):	Passes in (CH1601 or CH1202) and at least two of CH2501, (CH2601 or CH2603), CH2701			
Anti-requisite(s):	CH3622			
Learning and teaching methods and delivery:	Weekly contact: Daily 3.5-hour morning practical classes over 5 weeks (Weeks 1 - 5).			
	Scheduled learning: 85 hours		Guided independent study: 20 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr I A Smellie, Dr N S Keddie			
Module teaching staff:	Dr I A Smellie, Dr N S Keddie, Dr R J M Goss			

CH3622 Organic Chemistry Laboratory (Materials)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)			
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 with External Placement.			
Pre-requisite(s):	Passes in (CH2601 or CH2603) and at least one of CH2501 and CH2701			
Anti-requisite(s):	CH3621			
Learning and teaching methods and delivery:	Weekly contact: Daily 3.5-hour morning practical classes over 5 weeks (Weeks 1-5).			
	Scheduled learning: 85 hours		Guided independent study: 20 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr I A Smellie, Dr N S Keddie			
Module teaching staff:	Dr I A Smellie, Dr N S Keddie, Dr R J M Goss			

Chemistry - Honours Level - 2017/8 - August 2017

CH3712 Quantum Theory of Atoms, Molecules and Solids			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	<p>Compulsory for Chemistry, Materials Chemistry, Chemistry with External Placement, Chemistry and Physics, Materials Chemistry with External Placement.</p> <p>Optional for Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics.</p>		
Pre-requisite(s):	Passes in CH2701 and at least one of CH2501 and (CH2601 or CH2603)		
Required for:	CH5714		
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) and 2 - 3 tutorials in total.		
	Scheduled learning: 17 hours	Guided independent study: 83 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%</p>		
	<p>As used by St Andrews: 2-hour Written Examination = 100%</p>		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr G Haehner		
Module teaching staff:	Dr F D Morrison, Dr G Haehner		

CH3715 Introduction to Analysis of Materials				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 scanning and transmission electron microscopy (SEM, TEM), 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 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):	Passes in CH2701 and at least one of CH2501 and (CH2601 or CH2603)			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R T Baker			
Module teaching staff:	Dr R T Baker, Prof W Zhou			

Chemistry - Honours Level - 2017/8 - August 2017

CH3716 Quantitative Aspects of Medicinal Chemistry			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Compulsory for Biomolecular Science, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement. Optional for Chemical Sciences, Chemistry and Geology.		
Pre-requisite(s):	Passes in at least two of CH2501, CH2601, CH2701		
Anti-requisite(s):	CH3717		
Learning and teaching methods and delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks within Weeks 1-11 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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr T van Mourik		
Module teaching staff:	Dr T van Mourik, Prof N J Westwood, tba		

CH3717 Statistical Mechanics and Computational Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 Chemistry, Materials Chemistry, Chemistry with External Placement, Chemistry and Physics, Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry and Geology, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in CH2701 and at least one of CH2501 and (CH2601 or CH2603)			
Anti-requisite(s):	CH3716	Required for:	CH5714	
Learning and teaching methods and delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks within Weeks 1-11 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr T van Mourik			
Module teaching staff:	Dr T van Mourik, Dr J B O Mitchell			

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CH3721 Physical Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 1.00 pm Mon to Fri (Weeks 7-10)			
This module comprises practical experiments involving physical measurements and the use of computational programmes in Chemistry.				
Programme module type:	Compulsory for Chemistry, Chemistry and Geology, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Materials Chemistry, Materials Chemistry with External Placement, Chemistry and Physics. Optional for Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in CH2701 and at least one of CH2501 and (CH2601 or CH2603)			
Learning and teaching methods and delivery:	Weekly contact: Daily 4-hour morning practical classes over 4 weeks (Weeks 7 - 10).			
	Scheduled learning: 80 hours		Guided independent study: 20 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Prof M Buck			
Module teaching staff:	Prof P A Wright, Prof M Buck, Dr R Schaub, Dr T van Mourik, Prof M Buehl			

CH4441 External Placement				
SCOTCAT Credits:	90	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on Chemistry degree programmes with External Placement			
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. Postgraduate - Optional for Chemistry MPhil.			
Pre-requisite(s):	Passes in at least two of CH2501, (CH2601 or CH2603), CH2701			
Co-requisite(s):	CH4454 and CH4455 and (CH4453 or CH4456) or FR5810			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available; requires year-long external work to complete coursework			
Module coordinator:	Dr G Haehner			

CH4442 Chemistry Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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.				
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry with Medicinal Chemistry, Chemistry with French, Materials Chemistry, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in at least two of CH2501, (CH2601 or CH2603), CH2701			
Anti-requisite(s):	CH4441, CH4444 - CH4449, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 22.5 hours per week of their time on the project through semesters 1 and 2. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 15 to 17 hours per week are laboratory related.			
	Scheduled learning: 340 hours		Guided independent study: 160 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%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr T van Mourik and Dr R Schaub			

CH4448 Chemistry Project for Chemistry and Geology				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on Chemistry and Geology degree programme			
Planned timetable:	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.				
Programme module type:	Either (ES4010 and CH4448) or ID4441 are compulsory for Chemistry and Geology.			
Pre-requisite(s):	Passes in CH2501 and CH2701		Anti-requisite(s):	CH4442, CH5441, ID4441
Co-requisite(s):	ES4010			
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 18 hours per week of their time on the project. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 12 to 13 hours per week are laboratory related.			
	Scheduled learning: 135 hours		Guided independent study: 65 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%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr T van Mourik and Dr R Schaub			

Chemistry - Honours Level - 2017/8 - August 2017

CH4453 Chemistry Distance Learning (Materials Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on the MChem Materials Chemistry, MChem Materials Chemistry with External Placement and BSc Materials Chemistry degree programmes.			
Planned timetable:	n/a - Distance Learning			
This distance-learning module allows students to develop an advanced understanding of the basic concepts of various topics in Materials Chemistry.				
Programme module type:	Compulsory for MChem in Materials Chemistry, MChem in Materials Chemistry with External Placement, BSc Materials Chemistry.			
Pre-requisite(s):	Passes in at least two of CH2501, (CH2601 or CH2603), CH2701	Anti-requisite(s):	CH4452	
Co-requisite(s):	For programmes with an External Placement: CH4441 and CH4454 and CH4455			
Learning and teaching methods and delivery:	Weekly contact: Distance learning			
	Scheduled learning: 0 hours		Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr E R Kay			
Module teaching staff:	Dr F D Morrison, Dr R T Baker			

CH4455 Chemistry Distance Learning (Inorganic Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on the MChem Chemistry with External Placement, MChem Chemistry with Medicinal Chemistry and External Placement and MChem Materials Chemistry with External Placement degree programmes.			
Planned timetable:	n/a - Distance learning			
This module offers the material covered by level 4000 BSc/MChem module CH4514 in a distance learning mode to students on the MChem one-year placement. See the module description for CH4514 for details of module content.				
Programme module type:	Compulsory for MChem Chemistry with External Placement, MChem Chemistry with Medicinal Chemistry and External Placement and MChem Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701	Anti-requisite(s):	CH4514, CH4451	
Co-requisite(s):	CH4441, CH4454 and (CH4456 or CH4453)			
Learning and teaching methods and delivery:	Weekly contact: Distance Learning			
	Scheduled learning: 0 hours		Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr E R Kay			
Module teaching staff:	Dr E Zysman-Colman, Dr B Bode			

CH4456 Chemistry Distance Learning (Organic Chemistry)			
SCOTCAT Credits:	10	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students on the MChem Chemistry with External Placement and MChem Chemistry with Medicinal Chemistry and External Placement degree programmes.		
Planned timetable:	n/a - Distance Learning		
This module offers the material covered by level 4000 BSc/MChem module CH4614 in a distance learning mode to students on the MChem one-year placement. See the module description for CH4614 for details of module content.			
Programme module type:	Compulsory for MChem Chemistry with External Placement and MChem Chemistry with Medicinal Chemistry and External Placement.		
Pre-requisite(s):	Passes in (CH2601 or CH2603) and at least one of CH2501, CH2701		
Co-requisite(s):	CH4441 and CH4454 and CH4455	Anti-requisite(s):	CH4614, CH4451
Learning and teaching methods and delivery:	Weekly contact: Distance Learning		
	Scheduled learning: 0 hours		Guided independent study: 100 hours
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr E R Kay		
Module teaching staff:	Dr R A Aitken, Dr E Kay		

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CH4458 Chemistry Distance Learning (Physical Chemistry)			
SCOTCAT Credits:	10	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students on the MChem Chemistry with External Placement, MChem Chemistry with Medicinal Chemistry and External Placement, and MChem Materials Chemistry with External Placement degree programmes.		
Planned timetable:	n/a - Distance learning		
This module offers the material covered by level 4000 BSc/MChem module CH4716 in a distance learning mode to students on the MChem one-year External Placement. See the module description for CH4716 for details of module content.			
Programme module type:	Optional for the MChem Chemistry with External Placement; MChem Chemistry with Medicinal Chemistry and External Placement; MChem Materials Chemistry with External Placement degree programmes.		
Pre-requisite(s):	Passes in CH2701 and (CH2501 or (CH2601 or CH2603))		
Co-requisite(s):	CH4441	Anti-requisite(s):	CH4714, CH4716, CH4454, CH4451
Learning and teaching methods and delivery:	Weekly contact: n/a distance learning		
	Scheduled learning: 0 hours	Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (Open-book problem-solving assessment) = 100%		
Re-assessment pattern:	Reassessment by oral examination. Students will be required to return to St Andrews at an appropriate time (for example at the end of their external placement) to be re-assessed. Details of reassessment as for CH4716.		
Module coordinator:	Dr E R Kay		
Module teaching staff:	Prof M Buck, Prof M Buehl		

CH4461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 apply the knowledge gained in Level 2000 Chemistry modules.				
Programme module type:	Compulsory for Chemistry BSc, Chemistry with Medicinal Chemistry BSc, Materials Chemistry BSc Optional for Chemistry with French BSc			
Pre-requisite(s):	Passes in CH2501, (CH2601 or CH2603), CH2701	Anti-requisite(s):	CH5461	
Learning and teaching methods and delivery:	Weekly contact: 2 classes per week over 8 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars			
	Scheduled learning: 18 hours		Guided independent study: 82 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R Schaub			
Module teaching staff:	all staff			

CH4514 Advanced Metal Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with French MChem. Optional for Chemistry and Geology, Chemistry and Mathematics, Chemistry with French BSc, Chemistry with Mathematics, Materials Chemistry.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701	Anti-requisite(s):	CH4455	
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr B E Bode			
Module teaching staff:	Dr E Zysman-Colman, Dr B E Bode			

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CH4515 Advanced Main Group Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MChem Optional for Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr P Kilian			
Module teaching staff:	Dr P Kilian, Dr A Stasch			

CH4612 Blockbuster Pharmaceuticals				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemical Sciences, Chemistry and Mathematics, Chemistry MChem, Chemistry with French, Chemistry with Mathematics			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof D O'Hagan			
Module teaching staff:	Prof D O'Hagan and visiting industrial lecturers			

CH4614 Heterocyclic and Pericyclic Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module covers the important areas of heterocyclic and pericyclic chemistry in detail. In heterocyclic chemistry, the nomenclature and numbering of single and fused ring systems, and structure, reactivity, synthesis and applications of the main five and six-membered ring systems with one and two heteroatoms will be covered. Selected industrial syntheses of heterocyclic medicinal compounds are used to illustrate the basic principles as well as the factors to be considered in large scale synthesis. In pericyclic chemistry, a frontier molecular orbital approach based on the Woodward-Hoffmann rules will be applied to pericyclic reactions and used to provide an understanding of the energetics and stereochemistry of Diels-Alder and 1,3-dipolar cycloaddition reactions as well as electrocyclic processes and sigmatropic rearrangements. Synthetic applications of these processes will also be illustrated.</p>				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry with French MChem, Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemistry and Geology, Chemistry and Mathematics, Chemistry with French BSc, Chemistry with Mathematics.			
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)			
Anti-requisite(s):	CH4456			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R A Aitken			
Module teaching staff:	Dr R A Aitken, Dr E R Kay			

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CH4615 Fragrance, Food and Colour Chemistry			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 2
Academic year:	2017/8 & 2018/9		
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. Optional for Sustainable Development.		
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)		
Anti-requisite(s):	CH4613		
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr R A Aitken		
Module teaching staff:	Dr R A Aitken, Dr R J M Goss, Prof T K Smith		

CH4715 Functional Materials and Electrons in Solids				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The module introduces the physical concepts of dielectrics, semiconductors, and metals. Electronic properties of interfaces and thin films which are fundamental to devices such as microprocessors, lasers in CD players, or solar cells will be discussed.				
Programme module type:	Compulsory for Materials Chemistry, Chemistry and Physics. Optional for Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry and Geology, Chemistry with French, Chemistry with Mathematics.			
Pre-requisite(s):	Either: passes in CH2701 and at least one of CH2501, (CH2601 or CH2603)			
Anti-requisite(s):	CH5712			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr F D Morrison			
Module teaching staff:	Dr F D Morrison, Prof M Buck			

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CH4716 Electrochemistry and Computational Chemistry			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>One component of the module covers electrolyte solutions and ionic conductivity, equilibrium electrochemistry, electrode processes and applications of electrochemistry.</p> <p>The other component is a computational element, and will introduce aspects of modern computational chemistry related to the electronic structure of atoms, molecules and solids to achieve a basic understanding of the underlying approximations made in practical calculations, and consider applications of computed structures and energies in chemistry.</p>			
Programme module type:	<p>Compulsory for Chemical Sciences, Chemistry, Chemistry with French, Materials Chemistry (MChem), Chemistry with Medicinal Chemistry (MChem), Chemistry and Physics.</p> <p>Optional for Chemistry and Geology, Chemistry and Mathematics, Chemistry with Mathematics, Materials Chemistry (BSc).</p>		
Pre-requisite(s):	Either passes in CH2701 and (CH2501 or (CH2601 or CH2603)) or passes in CH2701 and CH2501 and (CH1601 or CH1202).		
Anti-requisite(s):	CH4714, CH4457, CH4454, CH4451		
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures (x 9 weeks) and 2 hours of tutorials over the semester.		
	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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Prof M Buck		
Module teaching staff:	Prof M Buck, Prof M Buehl		

CH4717 Fundamentals of the Spectroscopy of Molecules and Solids				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module describes the properties of matter relevant to their interaction with electromagnetic radiation. Absorption, transmission, reflection and diffraction of light across the electromagnetic spectrum are covered. There is a focus on microwave, infrared and NMR spectroscopy. Solid-state NMR spectroscopy will be compared with solution-state NMR and the advantages of solid-state NMR in obtaining structural information discussed.				
Programme module type:	Compulsory for Materials Chemistry and Chemistry & Physics Optional for Chemical Sciences, Chemistry, Chemistry with French, Chemistry with Mathematics, Chemistry and Mathematics.			
Pre-requisite(s):	Passes in CH2701 and (CH2501 or (CH2601 or CH2603))			
Anti-requisite(s):	CH4713			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures (x 9 weeks) and 2 hours of tutorials over the semester.			
	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%			
Re-assessment pattern:	Oral re-assessment = 100%			
Module coordinator:	Dr R Schaub			
Module teaching staff:	Dr R Schaub, Prof S E M Ashbrook			

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CH5441 Research Project			
SCOTCAT Credits:	50	SCQF Level 11	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Planned timetable:	2 days per week, to be arranged.		
<p>The research project at Level 5000 of the MChem and MSci programmes 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.</p>			
Programme module type:	Compulsory for Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics, Chemistry with Medicinal Chemistry MChem, Chemistry MChem, Chemistry with Medicinal Chemistry and External Placement, Chemistry and Physics MSci(or PH5101), Materials Chemistry with External Placement, Materials Chemistry MChem.		
Pre-requisite(s):	Passes in at least two of CH2501, (CH2601 or CH2603), CH2701	Anti-requisite(s):	CH4444-CH4449, ID4441
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 22.5 hours per week of their time on the project through semesters 1 and 2. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 15 to 17 hours per week are laboratory related.		
	Scheduled learning: 340 hours	Guided independent study: 160 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%		
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework		
Module coordinator:	Dr T van Mourik and Dr R Schaub		
Module teaching staff:	all staff		

CH5461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 apply the knowledge gained in Level 2000 Chemistry modules.				
Programme module type:	Compulsory for Chemistry MChem, Chemistry with Medicinal Chemistry MChem, Chemistry with Medicinal Chemistry and External Placement, Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2501, (CH2601 or CH2603), CH2701			
Anti-requisite(s):	CH4461			
Learning and teaching methods and delivery:	Weekly contact: 2 classes per week over 8 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars.			
	Scheduled learning: 18 hours		Guided independent study: 82 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R Schaub			
Module teaching staff:	all staff			

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CH5511 Homogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 MChem, Chemistry with External Placement, Chemistry with Medicinal Chemistry MChem, Chemistry with Medicinal Chemistry and External Placement. Optional for Chemistry with French MChem, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	TBC			
Module teaching staff:	Prof R P Tooze, TBC			

CH5517 Advanced Physical Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module involves distinct sections on photophysics of coordination complexes including theory and applications, and inorganic 'open shell' compounds including synthesis, characterisation and applications of paramagnetic inorganic species.				
Programme module type:	Optional for Chemical Sciences, Chemistry, Chemistry with French MChem, Chemistry with External Placement, Chemistry with Medicinal Chemistry MChem, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr E Zysman-Colman			
Module teaching staff:	Dr E Zysman-Colman, Dr B Bode			

CH5518 Blockbuster Solids				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MChem, Chemistry with External Placement, Chemistry with Medicinal Chemistry MChem, Chemistry with French and External Placement, Chemistry with Mathematics, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof P Lightfoot			
Module teaching staff:	Prof P Lightfoot, Prof R E Morris			

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CH5611 Asymmetric Synthesis			
SCOTCAT Credits:	10	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	<p>Compulsory for Chemistry with Medicinal Chemistry, Chemistry MChem, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement.</p> <p>Optional for Biomolecular Science, Chemistry with French MChem, Chemistry with French and External Placement, Chemistry with Mathematics.</p>		
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)		
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr M L Clarke		
Module teaching staff:	Dr M L Clarke, Prof A D Smith		

CH5612 Natural Products, Biosynthesis and Enzyme Co-factors				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MChem, Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry BSc, Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics.			
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof D O'Hagan			
Module teaching staff:	Prof D O'Hagan, Prof T K Smith, Dr G J Florence			

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CH5613 Reactive Intermediates			
SCOTCAT Credits:	10	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
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 MChem, Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry BSc, Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics.		
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)		
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr R A Aitken		
Module teaching staff:	Dr R A Aitken, Dr I A Smellie		

CH5614 Chemical Biology				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	<p>Compulsory for Chemistry with Medicinal Chemistry MChem, Chemistry with Medicinal Chemistry and External Placement.</p> <p>Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry BSc, Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics.</p>			
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Assessment pattern:	As used by St Andrews:			
	2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	TBC			
Module teaching staff:	Prof N J Westwood, TBC			

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CH5616 Molecular Recognition			
SCOTCAT Credits:	10	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
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 MChem, Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with Medicinal Chemistry BSc, Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics.		
Pre-requisite(s):	Either passes in (CH2601 or CH2603) and at least one of CH2501, CH2701 or passes in CH2501, CH2701 and (CH1601 or CH1202)		
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Prof D Philp		
Module teaching staff:	Prof D Philp, Dr E R Kay		

CH5711 Advanced Spectroscopic Methods				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 MChem, Chemistry with External Placement, Chemistry with Mathematics. Optional for Chemistry and Geology, Chemistry with French MChem, Chemistry with French and External Placement, Chemistry and Physics, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2701 and CH2501			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof C J Baddeley			
Module teaching staff:	Prof C J Baddeley, Dr G Haehner			

CH5713 Surface Science and Heterogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry and Physics, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2701 and CH2501			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof C J Baddeley			
Module teaching staff:	Prof C J Baddeley, Prof P A Wright			

Chemistry - Honours Level - 2017/8 - August 2017

CH5714 Chemical Applications of Electronic Structure Calculations				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry and Physics, Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2701, CH2501, CH3712 and CH3717			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof M Buehl			
Module teaching staff:	Prof M Buehl, Dr J B O Mitchell			

CH5715 Energy Conversion and Storage				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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:	Compulsory for Chemistry with Mathematics, Materials Chemistry MChem, Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry, Chemistry and Geology, Chemistry with External Placement, Chemistry with French MChem, Chemistry with French and External Placement, Chemistry and Physics.			
Pre-requisite(s):	Passes in CH2701 and CH2501	Anti-requisite(s):	CH4712	
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R T Baker			
Module teaching staff:	Dr R T Baker, Prof J T S Irvine			

CH5716 Processing of Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module focuses on the processing of materials. Fundamental materials properties such as crystallinity, composition, crystal phase, phase mixing, domain structure, grains and grain boundaries, porosity and pore structure will be covered and the main methods used to control these properties in order to develop and improve materials for specific applications will be addressed. Processes including casting, extrusion, physical and chemical vapour deposition, calcination, sintering, annealing, plasma treatments, mechanical working, crystallisation and dopant addition will be described and explained. Applications in high-value metals, ceramics and semiconductor materials will be emphasised.</p>				
Programme module type:	Compulsory for Materials Chemistry MChem, Materials Chemistry with External Placement.			
Pre-requisite(s):	Passes in CH2701, CH2501 and CH3513			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof J T S Irvine			
Module teaching staff:	Prof J T S Irvine, Dr M Cassidy			

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CH5717 Nanostructured Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module will introduce the concepts and science behind the design and synthesis of a wide range of nanostructures and the application of these structures in functional materials and devices. The relationship between nanoscale structure and composition and macroscale properties and behaviour will be emphasised. Structures will be classified and introduced in terms of their number of dimensions: clusters, nanoparticles and quantum dots (0-D); nanotubes, nanowires and nanorods (1-D); nanosheets and films (2-D); and porous crystals, mesoporous structures and metal-organic frameworks (3-D). Other specific topics will include the science of clusters, molecular assemblies and assemblies of nanostructures. Novel carbon based materials, including simple and functionalised fullerenes, carbon nanotubes and graphene and related materials will be described and their physical and chemical properties related to their structure and bonding. Advanced characterisation techniques and applications related to nanotechnology, MEMs, biomaterials, catalysis, and optical and magnetic devices will be addressed.</p>				
Programme module type:	Compulsory for Materials Chemistry MChem, Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry and Geology, Chemistry MChem, Chemistry with French MChem, Chemistry with External Placement, Chemistry with French and External Placement, Chemistry with Mathematics, Chemistry and Physics.			
Pre-requisite(s):	Passes in CH2701 and CH2501			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) 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%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof W Zhou			
Module teaching staff:	Prof W Zhou, Prof M Buck			

ID4441 Combined Chemistry and Geology Research Project			
SCOTCAT Credits:	50	SCQF Level 10	Semester: Whole Year
Academic year:	2018/9		
Planned timetable:	2 days per week.		
The research project at Level 4000 for Chemistry and Geology students only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised jointly by members of the academic staff in Chemistry and Geoscience. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)			
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology		
Pre-requisite(s):	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geology		
Anti-requisite(s):	CH4442-CH4448, CH5441		
Learning and teaching methods and delivery:	Weekly contact: Reflection, laboratory work, library work, written and oral presentation preparation.		
	Scheduled learning: 34 hours	Guided independent study: 466 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:			
Module coordinator:	Dr T A Raub (Earth Sciences), Dr A Aitken (Chemistry)		

School of Classics

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Ancient Archaeology (AA) modules

AA3020 Principles and Techniques in Archaeology			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
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 & Archaeology, Mediaeval History & Archaeology		
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook		
Anti-requisite(s):	AN3020		
Learning and teaching methods and delivery:	Weekly contact: Induction class in Orientation Week followed by 2 hours of lectures and seminars and 1 coursework consultation hour per week		
	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%		
Re-assessment pattern:	New coursework of equivalent weight to a 3-hour Honours exam (2 essays or one long essay)		
Module coordinator:	Dr E Cousins		
Module teaching staff:	Dr J Coulston, Dr E Cousins		

Classics - School - Honours Level - 2017/8 - August 2017

AA4001 Cities and Urban Life in Late Antiquity (300-700 CE)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Wed			
The evolution of cities plays a key role in our understanding of the late antique period. No longer seen as destined to decline, urban settlements underwent important transformations during this period, in terms both of their physical fabric and outlook and their political and cultural definition. These changes are documented through a variety of archaeological, epigraphic, and written sources. This module will discuss these issues, providing an overview of current scholarly debates in the area.				
Programme module type:	Optional for all Ancient History Degrees, all Ancient History & Archaeology Degrees, and Classical Studies degrees, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History & Archaeology			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Machado			
Module teaching staff:	Dr C Machado			

AA4122 Sacred Spaces in the Roman Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Thu			
The gods are encountered at every turn in the Roman Empire, but seldom in the same way or in the same places. Religious places range from large-scale, monumentalized sanctuaries to tiny household shrines, from public temples to cult spaces intended only for the initiated few. This module explores different categories of sacred space across the Roman Empire, from the first century BCE through the third century CE, and examines how architecture and environment structured ritual practices and shaped worshipers' interactions with the divine. The module emphasizes using a broad range of archaeological, epigraphic, iconographic and literary evidence to reconstruct experiences of sacred space and to investigate the role of religion in Roman society.				
Programme module type:	Optional module for Ancient History & Archaeology and all Ancient History degrees (Single, Joint and Triple Honours) and for Classical Studies, Classics, Greek and Latin Degrees (Single and Joint Honours, but excluding Triple Honours), History, Mediaeval History & Archaeology.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
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% (Essay = 25%, Oral Presentation = 10%, Site Analysis = 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Cousins			
Module teaching staff:	Dr E Cousins			

AA4145 The Archaeology of Roman Britain			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Planned timetable:	2.00 pm - 4.00 pm Tue		
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, all Ancient History & Archaeology Degrees, and Classical Studies degrees, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History & Archaeology, Scottish History		
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook	Anti-requisite(s):	AN4145
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%		
Re-assessment pattern:			
Module coordinator:	Dr J Coulston		
Module teaching staff:	Dr J Coulston		

Ancient History (AH) modules

AN3034 Approaches to Ancient History				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 pm - 4.00 pm Thu.			
Whereas antiquarians let the sources set their agenda, historians start with questions. As a preparation for the serious study of Ancient History at honours level, this module aims to make students better historians through close study of a selection of challenging and innovative works of scholarship. Each week students will read a book or article that revolutionised its field. They will learn that major advances often involve posing entirely new questions or finding novel ways of approaching familiar problems. They will learn the value (and the limits) of models, theory and different types of evidence. They will finish with a clearer appreciation of the wide range of approaches open to ancient historians and the importance of choosing between them.				
Programme module type:	Compulsory for Ancient History Degrees (including three-subject)			
Pre-requisite(s):	Entry to single or joint (including triple) Honours Ancient History.			
Learning and teaching methods and delivery:	Weekly contact: Induction class in Orientation Week followed by 2 hours of lectures and seminars and 1 coursework consultation hour per week.			
	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%			
Re-assessment pattern:	New Coursework = 100%			
Module coordinator:	Dr C Machado			
Module teaching staff:	Dr C Machado			

AN4106 Persia and the Greeks				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue.			
This module looks in detail at the history of the Achaemenid Persian empire, a looming presence in Greek history, from its beginnings under Cyrus the Great in the mid-sixth century until the conquests of Alexander the Great. Use will be made of all available sources of evidence including Persian art, architecture and royal inscriptions, but a particular focus will be placed on the difficulties in using Greek literary evidence in the reconstruction of Persian history. The module will focus on a number of key episodes: including Cambyses' conquest of Egypt, Darius' accession, the Persian wars, and Alexander's conquests, but will also look at themes including the royal court, imperial ideology, the role of women, and the response to empire of Persia's subject peoples.				
Programme module type:	Optional for all Ancient History Degrees, all Ancient History & Archaeology Degrees, Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof T Harrison			
Module teaching staff:	Prof T Harrison			

AN4146 The Supremacy of Greece: Athens and Sparta 479 - 362 BCE				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 11.00 am Wed and Fri			
Between 479 and 362 BCE Athens, Sparta and later Thebes and Thessaly contested the rule of Greece through imperial expansion and ideological dominance, leading to both constant warfare as the states struggled for power, and huge progress in philosophy and the arts brought about by the force of competition. This module studies the fifth- and fourth-century empires of Athens and Sparta and their effects on the Greek world at large. The period is exceptionally rich in sources - the histories of Thucydides and Xenophon, Athenian tragedy and comedy, inscriptions, coinage and art - and the module uses these to investigate themes such as political development and dissent, the relations between Greeks and outsiders, and the expression of ideological dominance.				
Programme module type:	Optional for all Ancient History Degrees, all Ancient History & Archaeology Degrees, Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Lewis			
Module teaching staff:	Dr S Lewis			

AN4428 Eight Scenes from the Life of Alexander				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Thu.			
The narrative of Alexander's campaigns is a uniquely difficult one for historians to handle. The main accounts on which we depend (Arrian, Plutarch, Diodorus) are in most cases written hundreds of years after Alexander's lifetime, and are profoundly influenced by the different environment in which they were written. The earlier sources on which these accounts depend are similarly problematic: responding to earlier accounts of the Persian empire, and reflecting a complex debate on Alexander's strengths and weaknesses. This module attempts to address these historiographical difficulties through the close analysis of eight 'scenes' in Alexander's life, each chosen for the richness of the images that they contain.				
Programme module type:	Optional for all Ancient History Degrees, all Ancient History & Archaeology, Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Anti-requisite(s):	AN4136			
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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof T Harrison			
Module teaching staff:	Prof T Harrison			

Classics - School - Honours Level - 2017/8 - August 2017

Classics (CL) modules

CL4413 Logos, Nature, and Psyche: the Origins of Western Thought				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Wed			
<p>This module will study the central ideas and cultural significance of the major thinkers from the Presocratic period of Greek thought (including the Milesians, Xenophanes, Heraclitus, Parmenides, Pythagoras, Anaxagoras, Empedocles, and Democritus). Among the concepts and issues that will receive particular attention are: the cosmos as a unified object of understanding; nature as an active system of principles and creative forces; the difference between mythical and rationalistic models of the world; competing paradigms of the physical and metaphysical foundations of reality; the status of human soul/mind, of thought, and of language; the development of human societies and of religious/political/ethical values.</p>				
Programme module type:	Optional for all Classical Studies Degrees, for Ancient History & Archaeology Single Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 275 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof F S Halliwell			
Module teaching staff:	Prof F S Halliwell			

CL4419 Magic in Greco-Roman Literature and Life				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue			
<p>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).</p>				
Programme module type:	Optional for all Classical Studies Degrees, for Ancient History & Archaeology Single Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R T Anderson			
Module teaching staff:	Dr R T Anderson			

CL4420 Fame, Tradition and Narrative: Homer's Iliad				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue			
<p>This module will give students the opportunity to study Homer's celebrated martial epic, the Iliad, in translation and in detail. It will consider the relevant social and cultural-historical questions which are prompted by this tale of heroic savagery and suffering: why might archaic Greeks have needed an epic like this? Why is the Homeric conception of the heroic so fraught with conflict and so obsessed with honour, memory and power? The module will also analyse and interpret the epic's rich poetic texture and 'oral-derived' style (formulae, similes, type-scenes...); it will explore the character of its heroes and their relationship with divinity. For all its depictions of battle and slaughter the Iliad is a poem about language as much as action and participants will consider the complex rhetoric of heroes who fight with words as well as swords. Finally, the module will ask how and why famous artists and poets of the modern era have returned to the Iliad's ideas and imagery.</p>				
Programme module type:	Optional for all Classical Studies Degrees, for Ancient History & Archaeology Single Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Hesk			
Module teaching staff:	Dr J Hesk			

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CL4437 Modern Classics: Classics in the Nineteenth and Twentieth Centuries				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Fri			
<p>"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.</p>				
Programme module type:	Optional for all Classical Studies Degrees, for Ancient History & Archaeology Single Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R T Anderson			
Module teaching staff:	Dr R T Anderson			

CL4449 After Virgil: The Aeneid and its Reception				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Fri			
<p>This module will explore, through close reading and comparative study, what made Virgil the 'Classic of all Europe' in Augustan Rome itself and in the two thousand years following the publication of the Aeneid. Focussing on particular 'hot spots' of Virgilian appropriation - the epics of Dante and Milton, the Early modern drama of Marlow, and selected poetry and prose of the twentieth century - this module will examine not just what makes the Aeneid susceptible to such a remarkable reception-history, but also what the theory and study of 'reception' can offer to a discipline of Classics and our own understanding an criticism of the ancient world.</p>				
Programme module type:	Optional for all Classical Studies Degrees, Ancient History & Archaeology Single Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Buckley			
Module teaching staff:	Dr E Buckley			

CL4462 Leaders and Leadership in the Ancient World				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	4.00 pm - 5.00 pm Tue and Thu			
<p>This module brings ancient texts about leadership and representative examples of ancient practice(s) of leadership into dialogue with modern leadership theory and contemporary leadership practice. Pairing a wide variety of ancient and modern texts, the course explores similarities and differences between ancient and modern approaches to leadership. It offers a historical-analytical perspective on leadership as a cultural practice that varies across different social, cultural and political circumstances. Furthermore, we will discuss how and to what extent modern concepts and approaches can fruitfully inform our reading of the ancient material. Adopting a deliberately broad, diachronic approach, the module aims not only to provide a thorough understanding of key moments of the development of practices and ideas of leadership in Graeco-Roman antiquity but also to enable a historically grounded understanding of leadership theory and practice in the modern world.</p>				
Programme module type:	Optional for all Classical Studies Degrees, Ancient History & Archaeology Single Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N Wiater			
Module teaching staff:	Dr N Wiater, Dr J Hesk			

CL4601 Art of the Roman Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Tue			
<p>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.</p>				
Programme module type:	Optional for all Classical Studies Degrees, for Ancient History & Archaeology single and joint Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Anti-requisite(s):	AN4117			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Coulston			
Module teaching staff:	Dr J Coulston			

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CL4603 Greek Painted Pottery			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Planned timetable:	11.00 am - 1.00 pm Tue		
<p>Greek Painted Pottery offers students the chance to study the ceramic art of Greece, and to examine modern interpretations of this material. The first four seminars provide a survey of the major styles of painted pottery in Greece, primarily in Athens, and their development from Geometric to the late red-figure period (750 - 300 BCE). This includes the history of the scholarship of Greek pottery, and study of the main themes depicted in the iconography. In the second part of the module student apply this basic knowledge to explore the differing modern approaches to pottery (art historical, archaeological, structuralist), and the debates between their practitioners. Case studies of particular themes are used to demonstrate the assumptions that underlie scholars' use of the evidence of pottery, and to suggest ways in which the images and their context can usefully comment on Greek society.</p>			
Programme module type:	Optional for all Classical Studies Degrees, for Ancient History & Archaeology single and joint Honours, and for all Ancient History, Classics, Greek, and Latin (Single and Joint, but excluding Three subject) Degrees.		
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook	Anti-requisite(s):	CL4442
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 1 coursework consultation hour.		
	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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr S Lewis		
Module teaching staff:	Dr S Lewis		

CL4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of not more than 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint or Triple Honours in the School of Classics			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As used by St Andrews: As per Letter of Agreement			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

CL4795 Joint Dissertation (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of not more than 20,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint or Triple Honours in the School of Classics			
Pre-requisite(s):	A Letter of Agreement.			
Anti-requisite(s):	Any other dissertation / project module			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

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CL4990 Special Topic in Classical Studies				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 all Ancient History & Archaeology, Ancient History, Classical Studies, Classics, Greek and Latin Degrees			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook	Anti-requisite(s):	GK4998	
Co-requisite(s):	ID4002			
Learning and teaching methods and delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 2 hours (in total) of supervisory meetings.			
	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: Coursework = 100%			
Re-assessment pattern:	Resubmission of the dissertation			
Module coordinator:	Dr R T Anderson			
Module teaching staff:	Dr R T Anderson			

CL4997 Dissertation (Non-Graduating) (30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module is for incoming Exchange and non-graduating students who spend all or part of their time in St Andrews working on dissertations which they will submit in their home university. Such students will receive supervision during their time in St Andrews and may be required to submit samples of written work for informal assessment, but there is no formal assessment in St Andrews. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Ancient History and Classical Studies Visiting Programmes			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Anti-requisite(s):	CL4996			
Learning and teaching methods and delivery:	Weekly contact: 1-hour research training; 4 hours (in total) of supervisory meetings.			
	Scheduled learning: 5 hours		Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Assessment is via home institution.			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr G Pezzini (S1), Dr E Gee (S2)			
Module teaching staff:	Individual supervisors assigned as required			

CL4999 Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.</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			
Pre-requisite(s):	As stated in the School of Classics Undergraduate Handbook			
Anti-requisite(s):	CL4998, CL4997, CL4996, LT4999, GK4999, GK4998			
Learning and teaching methods and delivery:	Weekly contact: 1-hour briefing in third year; 1 hour research training; 4 hours (in total) of supervisory meetings.			
	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 (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr E Gee			
Module teaching staff:	Individual supervisors assigned as required			

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Greek (GK) modules

GK3021 Greek for Honours Classics 1: Special Option			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	10.00 am - 11.00 am 4 days a week (Tue - Fri)		
<p>This module is for students who, having taken Latin in both of their first two years, but only begun Greek in their second year with GK1001 and GK1002, are entering Honours Classics or joint Honours Greek in their third year. It consists of 4000-level analysis and essay work together with consolidation of the student's prior knowledge of the Greek language, practice in translation skills, and training in techniques of literary analysis. The module will concentrate on the study of selected genres of Greek poetry and prose and aims to foster an awareness of the interrelationships between later and earlier periods of Greek literature, such as Homeric epic and the Greek literature of the Roman empire. For details of each year's prescribed texts, consult the module booklet and/or the School of Classics Honours booklet.</p>			
Programme module type:	Compulsory for Single Honours Classics or Joint Honours Greek Degree students who passed GK1002 in their second year.		
Pre-requisite(s):	Passes at grade 11 or better in GK1002 and in LT2004	Anti-requisite(s):	GK2003
Learning and teaching methods and delivery:	Weekly contact: Induction in Orientation Week, then 3 or 4 classes weekly.		
	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%, 3 class tests, 40%)		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr A Long		
Module teaching staff:	Team taught		

GK3022 Greek for Honours Classics 2: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 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%, 3 class tests, 40%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Hesk			
Module teaching staff:	Team taught			

GK4100 Greek Prose Composition				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon - 1.00 pm Tue and Fri			
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.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from GK2001, GK2003, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	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)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Coderch			
Module teaching staff:	Dr J Coderch			

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GK4102 Greek Tragedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	3.00 pm - 4.00 pm Tue and Thu			
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.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from GK2001, GK2003, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Anti-requisite(s):	CL4402, CL4416			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial/lecture, and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Hesk			
Module teaching staff:	Dr J Hesk			

GK4116 Greeks on Education				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm - 4.00 pm Tue and Thu			
The debate about education in one of the most exciting periods of ancient Athenian history. Can education make you a better person? Could education make you a worse person? What form should a good education take? We shall consider how different Athenian intellectuals conceived of the challenge posed by sophistry, how they tried to distance their own teaching from sophistry, and how they looked within and beyond Athenian culture for models of good (and bad) education. We shall also examine their discussions of whether education can deliver the advantages promised by some educators and their different conceptions of the connection between education and political leadership.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from GK2001, GK2003, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Long			
Module teaching staff:	Dr A Long			

GK4124 The History of Ancient Greek from Homer to the New Testament				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	1.00 pm - 2.00 pm Tue and Thu			
<p>This module offers in-depth insight into the key stages of the development of the Ancient Greek Language. Beginning with its earliest stages, the epic language of Homer and the famous Nestor Cup, we will acquaint ourselves, at a basic level, with Mycenaean (Linear B) Greek and Greek's relationship with Indo-European. Through an exploration of the main Greek dialects and alphabets preserved in both literary and inscriptional evidence, we will trace the process leading to the establishment of Attic as "standard" Greek, paying attention to linguistic-historical as well as social-cultural factors. We will then study the development of Hellenistic koine Greek and the influence of other cultures and languages on Greek, a fundamental part of this process, focussing, again, on inscriptions along with literature, which culminates in Greek classicism in Augustan Rome. The module concludes with an introduction to biblical Greek, at the threshold of pagan and Christian antiquity.</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from GK2001, GK2003, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N Wiater			
Module teaching staff:	Dr N Wiater			

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GK4998 Dissertation in Greek (Long)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Either, or whole year
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	40 credits from GK2001, GK2003, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, LT4999, GK4999, CL4990			
Learning and teaching methods and delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 8 hours of supervisory meetings.			
	Scheduled learning: 10 hours		Guided independent study: 590 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr G Pezzini (S1), Dr E Gee (S2)			
Module teaching staff:	Individual supervisors assigned as required			

GK4999 Dissertation in Greek				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.				
Programme module type:	Optional for all Classics and Greek (except Single Honours) Degrees			
Pre-requisite(s):	40 credits from GK2001, GK2003, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, GK4998, LT4999			
Learning and teaching methods and delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 4 hours (in total) of supervisory meetings.			
	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 (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr G Pezzini (S1), Dr E Gee (S2)			
Module teaching staff:	Individual supervisors assigned as required			

Latin (LT) modules

LT3017 Latin for Honours Classics 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 pm - 3.00 pm Tue,Thu and 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	
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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Buckley			
Module teaching staff:	Team taught			

LT3018 Latin for Honours Classics 2				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 pm - 3.00 pm Tue,Thu and 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%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A König			
Module teaching staff:	Team taught			

Classics - School - Honours Level - 2017/8 - August 2017

LT4201 Roman Epic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Thu			
Selected portions from a range of Latin epics are studied in this module. Topics covered will include the influence of Greek epic upon the Latin writers, and the development of epic in the century after Virgil. Close attention will be paid to each poet's handling of themes and narrative structure, to his exploitation of the tradition, and to his style.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: Induction in Orientation Week then 1 x 2-hour seminar and 1 coursework consultation hour each week.			
	Scheduled learning: 20 hours		Guided independent study: 280 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% (commentary and essay tasks, 45%, class test, 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Buckley			
Module teaching staff:	Team taught			

LT4208 Late Latin				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Wed			
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			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	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: -hour Written Examination = 40%, Coursework = (commentary and essay tasks) 60% (1 class-test, 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Rees			
Module teaching staff:	Dr R Rees			

LT4209 Latin Historical Writing				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 12.00 noon Tue and Fri			
This module studies the origins and development of Roman historical writing from the beginnings to the early second century AD. Selected works of Roman historians, and writings about historiography, will be read in Latin. The sources of Roman knowledge of the past, and the influence of Greek historical writing, will be studied, as well as the development of the Roman historiographical tradition, and the styles and techniques of individual writers.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Anti-requisite(s):	CL4405			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	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% (commentary and essay tasks, 45%, class test 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Rees			
Module teaching staff:	Team taught			

LT4210 Latin Didactic Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Thu			
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. A selection of epics 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			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	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% (commentary and essay tasks, 45%, 1 class-test, 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Gee			
Module teaching staff:	Team taught			

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LT4213 Roman Satire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Tue			
This module explores the emergence and evolution of Roman Satire. Its core texts are selected Satires by Horace, Persius and Juvenal, but it also examines the beginnings of Roman Satire in the second century BCE, and takes in other, later Roman satirists along the way. Close reading of the primary texts forms a key component of the module, but we also home in on some of the recurring themes of Roman satire so that students can compare the approaches of different authors and analyse the development of the genre over time. Broader issues are also tackled, such as the purpose of satire (was it always moralistic?) and the relationship between satirical writing and society.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 22-hour Written Examination = 40%, Coursework = 60% (commentary and essay tasks, 45%, class test, 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A König			
Module teaching staff:	Dr A König			

LT4217 Latin Oratory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 12.00 noon Wed and Fri			
Oratory - or 'public-speaking' - was a fundamental medium throughout classical antiquity, in Greek and Roman cultures alike. It dominated mainstream education and was a sine qua non in politics and law, those principle arenas of the aristocracy. But despite being a constant, oratory was far from stable and was frequently theorised, defined, defended and developed. This module looks at some key texts in the history of Latin oratory, selected from a time spanning the early Republic to the High Empire.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 45%, Practical Examinations = 0%, Coursework = 55%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (commentary and essay tasks, 45%, class test, 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N Wiater			
Module teaching staff:	Team taught			

LT4221 The Tools of the Classicist				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Wed			
The module aims to broaden the students' appreciation of classical studies by providing students with an introductory experience of the 'tools of the Classicist', i.e. the technical methodologies available for the advanced study of ancient Latin texts. These include in particular textual criticism, metre, historical and social linguistics, paleography, epigraphy and digital humanities. The module will also address theoretical issues related to these technical tools, such as their applicability and fallibility, and their current status within the discipline. Such issues will be considered from a historic perspective, and students will also be given an introductory knowledge of the history of classical philology.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 20 hours		Guided independent study: 270 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Pezzini			
Module teaching staff:	Dr G Pezzini			

LT4999 Latin Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Roman life or literature, provided that the study of Latin texts is involved. The topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.				
Programme module type:	Optional for all Classics and Latin Degrees			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, GK4999, GK4998			
Learning and teaching methods and delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 4 hours (in total) of supervisory meetings.			
	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 (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr G Pezzini (S1), Dr E Gee (S2)			
Module teaching staff:	Individual supervisors assigned as required			

School of Computer Science

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Computer Science (CS) modules

CS3052 Computational Complexity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module introduces Turing machines, non-determinism and pushdown automata, followed by study of decidability, simulation and the Halting problem. It builds upon finite state machines, context-free grammars and big-O notation from second year. 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.</p>				
Programme module type:	Compulsory for Computer Science BSc, Joint Computer Science degrees with subjects other than Psychology with BPS Recognition, Computer Science MSci Optional for Computer Science and Psychology with BPS Recognition BSc			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	MT3852	
Required for:	CS4052, CS4204			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2017/8 - August 2017

CS3099 Software Engineering Team Project				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Not available to General Degree Students			
Planned timetable:	To be arranged.			
<p>This module gives a broad overview of software engineering, presenting the fundamental aspects as a collaborative professional activity including its concerns and approaches. Students apply these concepts and practices to a substantial software engineering project as part of a team. Each team specifies, plans, designs, implements, tests 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. 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.</p>				
Programme module type:	Compulsory for Computer Science BSc, Computer Science Joint Honours Degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Required for:	CS4098, CS4099, CS4796			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 10 weeks) and 4 seminars			
	Scheduled learning: 34 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3101 Databases				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3102 Data Communications and Networks				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module covers the principles and practice of modern computer communications through studying network abstractions, protocols, architectures and technologies at all levels of the five-layer reference model.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101), CS2002 and CS2003	Anti-requisite(s):	CS5020	
Required for:	CS4103, CS4302, CS5022			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3104 Operating Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Required for:	CS4202, CS4204	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS3105 Artificial Intelligence				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS5010	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3106 Human Computer Interaction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS5040	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3301 Component Technology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 and of service-oriented computing models such as SOAP and REST.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101), CS2002 and CS2003			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3302 Data Encoding				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 110weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2017/8 - August 2017

CS4052 Logic and Software Verification				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees with subjects other than Psychology with BPS Recognition, Computer Science MSci Optional for Computer Science and Psychology with BPS Recognition BSc			
Pre-requisite(s):	CS3052			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4098 Minor Software Project				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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):	CS3099	Anti-requisite(s):	CS4099, CS4796	
Learning and teaching methods and delivery:	Weekly contact: Individual supervision			
	Scheduled learning: 68 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4099 Major Software Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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 BSc, Computer Science MSci			
Pre-requisite(s):	CS3099	Anti-requisite(s):	CS4098, CS4796	
Learning and teaching methods and delivery:	Weekly contact: Individual supervision.			
	Scheduled learning: 68 hours		Guided independent study: 232 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4102 Computer Graphics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2017/8 - August 2017

CS4103 Distributed Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3102			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4201 Programming Language Design and Implementation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4202 Computer Architecture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3104			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4203 Computer Security				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

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CS4204 Concurrency and Multi-Core Architectures				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3052 and CS3104			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4302 Signal Processing and Perception for Digital Media				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The module will introduce students to the concepts of analogue and digital media and review current standards and technologies used in the production, transport and rendering of digital multimedia. Within the context of networked multimedia the concept of Quality-of-Service will be introduced and the issues involved in transporting time-sensitive data across computer networks will be explained. Specific examples drawn from Internet-based projects, protocols and standards will be used to illustrate these issues.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3102			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4303 Video Games				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4402 Constraint Programming				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>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 modern solver.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and fortnightly tutorial.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2017/8 - August 2017

CS4499 Computer Science (Special Subject)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	The consent of the Head of School			
Learning and teaching methods and delivery:	Weekly contact: 1-hour supervision meeting.			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.				
Programme module type:	Optional for Joint Honours in the School of Computer Science.			
Pre-requisite(s):	A Letter of Agreement, CS3099	Anti-requisite(s):	CS4098, CS4099, More than 30 credits in other dissertation / project modules	
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 68 hours		Guided independent study: 232 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	As per Letter of Agreement.			

CS5010 Artificial Intelligence Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. 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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5011 Artificial Intelligence Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	Students must have passed CS3105 or CS5010, or be currently taking 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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

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CS5012 Language and Computation				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5020 Principles of Computer Communication Systems				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module aims to equip students with a deep knowledge of fundamental concepts and terminologies of computer communication systems (CCS). It will illustrate fundamental principles with reference to widely-used systems and technologies for CCS and enable students to use high level tools for networked systems configuration, exploration and management of CCS. Students will also be made aware of security and privacy principles and how they are used in CCS.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3102	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 tutorial (x 6 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 119 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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5022 Practice in Computer Communication Systems				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module aims to introduce students to the applications, protocols and architecture of Computer Communication Systems in terms of their practical realisation, operation, control and management. It will enable them to use standard programming languages and tools in order to build communication applications and protocols and to use standard analytical and statistical tools for examining the operation and performance of communication applications, protocols and systems.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3102			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks), 1 tutorial (x 4 weeks), lab session (x 4 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5024 Advanced Topics in Computer Communication Systems				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module reinforces the basic principles and fundamental concepts of computer communication systems (CCS). It will cover, in depth, new developments and emerging topics in CCS and allow students to analyse, evaluate, critique and reproduce results from CCS research papers.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3102 or CS5022			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 tutorial (x 6 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 119 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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

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CS5030 Software Engineering Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5031 Software Engineering Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5032 Critical Systems Engineering				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The aim of this module is to provide students with an understanding of the concepts and development techniques used for critical, socio-technical systems. When students have completed this module they will: understand the notion of system dependability and the key characteristics of dependable systems; understand the specialised software engineering techniques that may be used to ensure dependable system operation; have practical experience of applying some of these techniques in systems specification, design or implementation.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002, CS3099			
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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5033 Software Architecture				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3099 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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

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CS5040 Human Computer Interaction Principles and Methods				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science Msci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3106	
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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5041 Interactive Software and Hardware				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practical classes and tutorials.			
	Scheduled learning: 66 hours		Guided independent study: 84 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5042 User-Centred Interaction Design				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
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 BSc, Joint Computer Science degrees, Computer Science Msci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures, 3 practicals and 1 tutorial.			
	Scheduled learning: 66 hours		Guided independent study: 84 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 85%, Presentation = 15%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

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CS5044 Information Visualisation and Visual Analytics			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p>			
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci		
Pre-requisite(s):	(CS2001 or CS2101) and CS2002		
Learning and teaching methods and delivery:	Weekly contact: 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks)		
	Scheduled learning: 41 hours	Guided independent study: 109 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%		
Re-assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%		
Module coordinator:	dopgt-cs@st-andrews.ac.uk		

CS5052 Data-Intensive Systems				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged			
<p>The era of big data is upon us - the volume, velocity and variety of enterprise and scientific data are growing at an exponential rate and will continue to do so for the foreseeable future. This module presents the programming paradigms, algorithmic techniques and design principles for large-scale distributed systems, such as those utilised by companies such as Google, Amazon and Facebook. This module is different in scope from CS4103 (distributed systems) as it focuses primarily on building and utilising large-scale clusters. The module will cover: distributed systems architecture, replication and fault tolerance, storage, coordination, scheduling algorithms, cluster computing, cloud computing, virtualisation, programming models (e.g., MapReduce), stream processing, decentralised systems (e.g., Chord), incentive-based systems (e.g., BitTorrent), and social computing (e.g., crowd sourcing techniques). This module will draw from the latest research in both academia and industry.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 tutorial (x 5 weeks)			
	Scheduled learning: 31 hours		Guided independent study: 116 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%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	dopgt-cs@st-andrews.ac.uk			

CS5199 Individual Masters Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	1 & 2 (taught twice)
Academic year:	2017/8 & 2018/9			
Planned timetable:	Full-time for one semester.			
<p>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.</p>				
Programme module type:	Compulsory for MSci Honours Computer Science			
Pre-requisite(s):	CS3099, Entry to MSci 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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	hons-coord-cs@st-andrews.ac.uk			

School of Divinity

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Divinity (DI) modules

DI3703 Reading in Reformation and Early Modern Theology			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (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:	Compulsory for MTheol, BD, and Single Honours Theological Studies Optional for Joint Honours Theological Studies		
Pre-requisite(s):	DI2000	Co-requisite(s):	DI3704
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar (x 5 weeks).		
	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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof M W Elliott		

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DI3704 Reading in Theological Ethics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 7 - 11 essay submitted in week 12)			
This module involves close study of key thinkers in the history of theological ethics, focusing on a key thinker from each of five different historical periods: Bible & early church, patristic, medieval, early modern, and twentieth century. Our goal is to understand how these thinkers relate to one another, how theological ethics relates to other aspects of theology like the study of doctrine and Scripture, and how they continue to influence thinking even today - often without our noticing their influence! The module will also provide helpful background for those students who plan to take 4000-level modules in theological ethics.				
Programme module type:	Compulsory for MTheol, BD, and Single Honours Theological Studies Optional for Joint Honours Theological Studies			
Pre-requisite(s):	DI2000	Co-requisite(s):	DI3703	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar (x 5 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J Perry			
Module teaching staff:	Dr J Perry			

DI3711 Reading in the Old Testament / Hebrew Bible				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 11.00 am - 1.00 pm Fri (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, MTheol, BD, Hebrew, New Testament and Theological Studies			
Pre-requisite(s):	DI2001	Co-requisite(s):	DI3712	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar (x 5 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Nevader			
Module teaching staff:	Dr M Nevader			

DI3712 Reading in the New Testament				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 11.00 am - 1.00 pm Fri (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, MTheol, BD, Hebrew, New Testament and Theological Studies			
Pre-requisite(s):	DI2003	Co-requisite(s):	DI3711	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar (x 5 weeks).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E Shively			
Module teaching staff:	Dr E Shively			

DI3716 Reading in the Greek New Testament				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Mon and Thu			
<p>Building on the competencies learned in DI2201, students will gain familiarity with advanced grammatical concepts and syntactical relationships as they are encountered inductively through the reading of primary texts. In addition, students will learn to use and evaluate a standard reference work regarding intermediate Koine Greek grammar as they learn to analyze the primary texts by using the syntactical categories of contemporary scholarship. Finally, in order to facilitate future reading, students will increase their vocabulary by mastering every word that occurs 25 times or more in the Greek New Testament.</p>				
Programme module type:	Optional for Biblical Studies, New Testament, Theological Studies, MTheol and BD			
Pre-requisite(s):	DI1005, DI2201	Anti-requisite(s):	DI4632	
Learning and teaching methods and delivery:	Weekly contact: 3-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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Hafemann			
Module teaching staff:	Dr S Hafemann			

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DI4015 Communication in Divinity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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, MTheol 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E Stoddart			
Module teaching staff:	Dr E Stoddart			

DI4498 Honours Dissertation in Divinity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am - 1.00 pm Wed			
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 10,000 words, including text, footnotes and appendices. It must be submitted by the end of the semester. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for Biblical Studies, Divinity BD, Hebrew, New Testament, Theological Studies and Master of Theology MTheol			
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%			
Re-assessment pattern:	Rewriting relevant portions or whole dissertation; mark capped at 7.			
Module coordinator:	TBC			

DI4510 Modern Ecclesiology: from Age to Age				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm - 5.00 pm Mon and Tue			
<p>This module will examine reflection on what the Church is and is for among Protestants and Catholics through considering three phases in the development of Ecclesiology in the modern age. Resourced by Scriptural thinking and imagery, modern statements of Ecclesiology will serve to advance students' own understanding of different positions and contexts, but also their framing of a coherent doctrine with which they can compare current church practice, not least through case studies of three churches. A large percentage of reading will be of 'classic' texts, from Calvin to Benedict XVI, but there will also be secondary scholarship of a historical-theological nature to consider. There will be three sections so that roughly three weeks might be given to three epochs: the mid-1500s, the early 1800s and the later 1900s.</p>				
Programme module type:	Optional for Theological Studies and MTheol			
Pre-requisite(s):	Pass in DI2006 and or DI3703 and DI3704			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 10%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M W Elliott			
Module teaching staff:	Prof M W Elliott			

DI4525 Mediaeval Monastic Spirituality				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 12.00 noon Mon and 2.00 pm - 4.00 pm Thu			
<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 Theological Studies, BD and MTheol			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr W Hyland			
Module teaching staff:	Dr W Hyland			

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DI4550 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to Baylor University students.			
Planned timetable:	To be arranged.			
This Module is specifically for visiting students and staff from Baylor University. It is not available for St Andrews students.				
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)			
Re-assessment pattern:	No Re-assessment available. Students do not remain in the UK beyond the semester (i.e. we cannot re-assess them) and Baylor permits no re-assessment.			
Module coordinator:	Baylor Programme Director			
Module teaching staff:	Baylor Programme Director			

DI4551 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to Baylor University students.			
Planned timetable:	To be arranged.			
This Module is specifically for visiting students and staff from Baylor University. It is not available for St Andrews students.				
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)			
Re-assessment pattern:	No Re-assessment available. Students do not remain in the UK beyond the semester (i.e. we cannot re-assess them) and Baylor permits no re-assessment.			
Module coordinator:	Baylor Programme Director			
Module teaching staff:	Baylor Programme Director			

DI4608 Gospel of Matthew (English Texts)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 1.00 pm Tue			
This module aims to develop skills in the interpretation of the Gospel of Matthew, with particular attention given to appreciating the text's literary and theological contribution to the New Testament. While the module will focus primarily on the narrative interpretation of the text, important social and historical issues will also be considered. The module will explore (1) relevant background issues, including authorship, provenance, and purpose, (2) the Matthean narrative in its literary and theological context, and (3) selected textual issues that are important and/or disputed within contemporary scholarship.				
Programme module type:	Optional module for M.Theol., M.A. Biblical Studies, M.A. New Testament, B.D.			
Pre-requisite(s):	DI1006, DI3712	Anti-requisite(s):	DI4609	
Learning and teaching methods and delivery:	Weekly contact: 3-hour seminar			
	Scheduled learning: 22 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D Moffitt			
Module teaching staff:	Dr D Moffitt			

DI4615 New Testament Special Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module allows students the possibility of pursuing a special topic in the New Testament by arrangement with the staff of the subject area and the Head of School. The topic will be chosen from one of the areas of specialisation of the teaching staff or of a visiting scholar. A written statement of teaching and assessment will be agreed with the student and lodged with the Dean of Faculty.				
Programme module type:	Optional for Biblical Studies, New Testament and MTheol			
Learning and teaching methods and delivery:	Weekly contact: 1 hour lecture and 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: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Shively			
Module teaching staff:	Dr E Shively			

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DI4616 Atonement				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 5.00 pm Mon			
<p>This module explores ancient conceptions of atonement, sacrifice, sin, and impurity through the study of representative texts and materials from the Hebrew Bible and Ancient Near East through the Second Temple Period and into the first centuries of the Common Era. Of necessity conceptions of priesthood, priestly service, sacred spaces (e.g., temples), and sacred items (e.g., altars) will be studied. Special attention will be given to the descriptions and conceptions of these matters in the Old and New Testament texts. Additionally, students will engage a number of secondary texts related to these topics, as well as reflect on the potential impact that the historical and exegetical explorations of these issues has for contemporary theology.</p>				
Programme module type:	Optional for Biblical Studies, New Testament and MTheol			
Pre-requisite(s):	DI3601 or DI3711 and DI3712			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture and 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D Moffitt			
Module teaching staff:	Dr D Moffitt, Dr M Nevader			

DI4705 Biblical Aramaic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	Lecture: 12.00 noon - 1.00 pm Tue, Seminar: 2.00 pm - 4.00 pm Fri			
<p>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).</p>				
Programme module type:	Optional for Biblical Studies, Hebrew, MTheol, BD			
Pre-requisite(s):	DI2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 1-hour lecture.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Davila			
Module teaching staff:	Prof J Davila			

DI4726 Hebrew Readings				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module intends to acquaint the student with a range of Hebrew Readings. Three areas of specialisation will be pursued: text criticism, exegesis, and reading and translating texts from the Old Testament, with a particular focus on the last of these. Text criticism is an advanced subject area, requiring cognate language skills and detailed work in the history of the Hebrew language. To this end, the module will familiarise students with the textual apparatus of (BHS) Biblia Hebraica Stuttgartensia and will attend to the logic of text-critical decisions deployed by the standard technical commentary series, notably The International Critical Commentary Series and the Hermenia Commentary Series.</p>				
Programme module type:	Optional for Biblical Studies, Hebrew, BD and Mtheol			
Pre-requisite(s):	DI1004 and 11 or better in DI2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr W Tooman			
Module teaching staff:	Dr W Tooman			

DI4732 King and Messiah in the Hebrew Bible/Old Testament and Second Temple Judaism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	Lecture: 12.00 noon - 1.00 pm Fri, Seminar: 11.00 am - 1.00 pm Mon			
<p>This module explores the institution of monarchy in the ancient Near East, the various presentations of kingship in the Hebrew Bible/Old Testament and the rise of Messianism in late Second Temple Judaism. Our primary focus will be the Hebrew Bible/Old Testament, but we will also look outward to explore the figure of the ideal king as represented in texts from Egypt, Mesopotamia, Anatolia and Persia, as well as looking forward to the changes that take place in the Dead Sea Scrolls, Septuagint and the possible influences from Hellenistic culture. The module will also bring in observations and theoretical frameworks from political theology and philosophy to engage with the unique position taken in the Hebrew Bible with regard to human and divine sovereignty.</p>				
Programme module type:	Optional for Biblical Studies, Hebrew, New Testament or MTheol.			
Pre-requisite(s):	DI2001			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 10 weeks) , 2-hour seminar (x 10 weeks) and one-to-one supervision			
	Scheduled learning: 36 hours		Guided independent study: 264 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Nevader			
Module teaching staff:	Dr M Nevader, Dr T Lang			

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DI4733 Creation and Chaos in the Hebrew Bible and the Ancient Near East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module explores the dual themes of Creation and Chaos in the Old Testament/Hebrew Bible and related literature from the ancient Near East, and how, as root cosmological ideas, each informs the theological, political and literary worlds of the Near East. Our primary focus will be the Hebrew Bible/Old Testament, but we will also look at the representation of Creation and Chaos in the literary giants from Mesopotamia (e.g. The Epic of Gilgamesh, the Enuma Elish), Egypt (e.g. The Hymn to Aten, The Memphite Theology), and the Levant (e.g. the Baal Cycle).				
Programme module type:	Optional for Biblical Studies, Hebrew, New Testament or MTheol.			
Pre-requisite(s):	DI2001			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 10 weeks) and one-to-one supervision			
	Scheduled learning: 36 hours		Guided independent study: 264 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Nevader			
Module teaching staff:	Dr M Nevader			

DI4750 Themes and Texts in Christian-Buddhist Dialogue				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 2.00 pm Wed.			
This module examines the foundations of Christianity and Buddhism and the possibility of dialogue between these two faiths/world religions. The possibilities of dialogue between a theistic and an atheistic religion are explored through themes such as silence, meditation and service as well as through theological texts by important authors, e.g. John, the 14th Dalai Lama, Raimon Pannikar, and Shantideva. This module has practical components such as periods of meditation, the recitation of sacred texts and the listening of music and mantras.				
Programme module type:	Optional for BD MTheol, MA Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 x 1-hour lecture.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M I Aguilar			
Module teaching staff:	Prof M I Aguilar			

DI4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint Honours in the School of Divinity			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

DI4825 Theology in Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 2.00 pm Tue.			
<p>This module explores the history and development of theology in Africa from the post-colonial period - 1960s to the 1990s. The module considers the work of Aylward Shorter, V.Y. Mudimbe and F. Kabasele Lumbala among others and their contribution to post-colonial theology, a theology of inculturation and liturgical theology in Africa.</p>				
Programme module type:	Optional for Theological Studies, BD and MTheol			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour 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 = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M Aguilar			
Module teaching staff:	Prof M Aguilar			

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DI4829 A Quest for God: The Religious World of Dante				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	Lecture: 10.00 am - 11.00 am, Seminar: 10.00 am - 12.00 noon Wed			
Dante's Divine Comedy depicts the three realms of the medieval Christian afterlife - Hell, Purgatory, and Paradise. It also opens up the extraordinarily rich and diverse world of medieval theology. In their quest for God, medieval theologians questioned everything from the very existence of God to the age of Joseph when he married Mary. Taking Dante as a guide, the module explores how visionary founders (such as St Francis and St Dominic), theologians (such as St Bonaventure and St Thomas Aquinas) and artists searched for, and questioned about, God. Students are introduced to a wide variety of theological texts (all in English translation), and are encouraged to engage directly with some key questions and themes of the period such as the nature of human desire and divine love.				
Programme module type:	Optional for MTheol, BD, Single Honours MA Theological Studies, Joint Honours MA Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour 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 = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Corbett			
Module teaching staff:	Dr G Corbett			

DI4924 Theology and Imagination				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 5.00 pm Thu			
This module will examine the nature and status of the imagination and its role in religious contexts. We will consider a range of approaches or modes of theological engagement with the arts, though we will also consider a variety of artworks, in different media - such as popular music and science fiction - as a way of testing the cogency of these models and exploring the possibility that works of art may be able to do things that propositional theological discourse cannot.				
Programme module type:	Optional for Theological Studies, and MTheol			
Pre-requisite(s):	DI1001, DI2000			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Hopps			
Module teaching staff:	Dr G Hopps			

DI4940 Analytic Theology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 2.00 pm Tue			
This module provides an overview of one of the most important recent developments in theology, namely, analytic theology. The latter borrows ideas, concepts, and ways of proceeding in theological discussion from analytic philosophy and capitalises on the field-changing developments that have taken place in Christian analytic philosophy over the last four decades. The specific topics it will consider will normally include a) God's relationship to time in the Christian interpretation of creation and incarnation; b) the nature of the human person engaging with dualist and materialist accounts; c) the significance of the doctrine of atonement for understanding the nature and conditions of forgiveness.				
Programme module type:	Optional for BD, MTheol, MA Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 x 1-hour lecture			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A J Torrance			
Module teaching staff:	Prof A J Torrance and Dr A B Torrance			

DI4941 Theology of the Reformation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	Lecture: 10.00 am - 11.00 am Tue, Seminar: 11.00 am - 1.00 pm Fri.			
This module will probe several doctrinal themes at the heart of the Protestant Reformation, a variegated movement of religious reform that changed the face of Europe over the course of the sixteenth century. Setting this movement against the background of late Medieval Catholicism, we will explore several strands of Reformation thought. Particular attention will be given to examining the leading figures, concepts, texts, and practices that distinguished the various traditions emerging from the Reformation.				
Programme module type:	Optional for Joint Honours Theological Studies or MTheol			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar			
	Scheduled learning: 30 hours		Guided independent study: 275 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T Baylor			
Module teaching staff:	Dr T Baylor, Dr S Holmes			

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ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the Schools of Classics, Divinity, English, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.		
Planned timetable:	To be arranged.		
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.			
Programme module type:	Optional for Classics, Divinity, English, Geography, History, International Relations, Modern Languages, Philosophy or Social Anthropology.		
Co-requisite(s):	If taken within Classics, Divinity, English, History, International Relations or Philosophy, a further 15-credit subject-specific module may be required.		
Learning and teaching methods and delivery:	Weekly contact: The module commences with an Induction Event at the University (3 hours). Students spend a minimum of 20 hours during the semester at their placement. 3 x 1-hour tutorials are held at the University during the semester. The module concludes with an oral presentation session.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%		
	As used by St Andrews: Coursework = 100% comprising: Written project proposal (10%) + written report (35%) = 45% Oral presentation (at University, assessed by module lecturers) = 30% A further 25% of Coursework is in the form of a report by their placement-mentor on the student's practical performance in the classroom on placement.		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr E Stoddart		
Module teaching staff:	Dr E Stoddart		

School of Earth & Environmental Sciences

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Environmental Geography (EG) modules

EG3020 Global Climate Change			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	9.00 am - 10.00 am Wed and Thu, 2.00 pm - 5.00 pm Tue		
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:	Compulsory for MGeol Earth Sciences and BSc Environmental Earth Sciences. Optional for Geography or Sustainable Development		
Pre-requisite(s):	Normally ES2002 or ES2003 or (GG2011 and GG2012)	Anti-requisite(s):	GG3265, GG3268
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 2-hour practical.		
	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%		
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4		
Module coordinator:	Dr R Wilson		
Module teaching staff:	Dr R Wilson, Dr T Prave, Dr T Raub, Dr J Rae		

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EG3031 Special Topic for Physical Geography				
SCOTCAT Credits:	5	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 or Sustainable Development students also taking a 15-credit module in Earth & Environmental Sciences			
Pre-requisite(s):	GG2011 and GG2012	Co-requisite(s):	EG3020 or ES3011	
Learning and teaching methods and delivery:	Weekly contact: Occasional tutorials.			
	Scheduled learning: 8 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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R Wilson			
Module teaching staff:	Earth and Environmental Sciences staff			

EG3032 Special Environmental Topic for Physical Geography				
SCOTCAT Credits:	5	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Only available to students on a Geography or Sustainable Development Honours programme.			
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. 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. The present module is designed to pair with environmental science-based modules such as ES3011 Global Biogeochemical Cycles.				
Programme module type:	Optional for Geography or Sustainable Development students also taking any ES3000-level module			
Co-requisite(s):	Normally EG3020 or ES3011			
Learning and teaching methods and delivery:	Weekly contact: 2-hours of tutorials (x 4 weeks)			
	Scheduled learning: 8 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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr A Zerkle			
Module teaching staff:	Earth and Environmental Sciences staff			

Earth Science (ES) modules

ES3001 Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 and BSc Environmental Earth Sciences, joint degrees with Biology and Chemistry, and MGeol Earth Sciences			
Pre-requisite(s):	Normally ES2001 and ES2002	Required for:	ES3006, ES3010	
Learning and teaching methods and delivery:	Weekly contact: 4 maps and cross-section practicals (3 hours each) and lectures over 10 weeks 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr T Prave			
Module teaching staff:	Dr T Prave			

ES3002 Analytical and Statistical Methods in Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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. Four 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 Sciences			
Pre-requisite(s):	Normally ES2001 and (ES2002 or ES2003)	Required for:	ES3003, ES3008	
Learning and teaching methods and delivery:	Weekly contact: Lectures, practicals, tutorials and lab time averaging 5 hours per week.			
	Scheduled learning: 55 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 = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr R Wilson			
Module teaching staff:	Prof 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:	2017/8 & 2018/9			
Planned timetable:	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session) (Weeks 1 - 7)			
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.				
Programme module type:	Compulsory for BSc Geology and Environmental Earth Science, and MGeol Earth Sciences			
Pre-requisite(s):	Normally ES3002			
Learning and teaching methods and delivery:	Weekly contact: 6 lectures and 14 practicals and support sessions (Weeks 1 - 7).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C Bates			
Module teaching staff:	Dr C Bates			

ES3004 Processes and Products in Sedimentary Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 10.00 am Tue - Thu (lectures), 2.00 - 5.00 pm Mon (practicals). 3 field days (9.00 am - 5.00 pm)			
This core module provides fundamental knowledge and training in describing, studying and interpreting sediments, 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.				
Programme module type:	Compulsory for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Sciences			
Pre-requisite(s):	Normally ES2001 and (ES2002 or ES2003)			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures and practicals averaging 6 hours per week plus 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%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr C Rose			
Module teaching staff:	Dr T Prave, Dr C Rose			

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ES3006 Advanced Geological Mapping			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Not available to General Degree students.		
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 sessions on geophysics techniques and field-based skills training sessions and lab-based analysis of classic geology maps, followed by two one-week field courses. Field assessment comprises a geophysical report, field notes and geological maps within holistic, problem-based exercises, determining the geology of the field 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> <p>All travel and accommodation costs associated with the field work are provided by the School of Earth and Environmental Sciences.</p>			
Programme module type:	Compulsory for BSc Geology, joint degrees with Biology and Chemistry, and MGeol Earth Sciences		
Pre-requisite(s):	ES3001	Required for:	ES4001
Learning and teaching methods and delivery:	Weekly contact: 8 practical sessions through semester plus two residential field excursions.		
	Scheduled learning: 88 hours	Guided independent study: 62 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr T Prave		
Module teaching staff:	Earth and Environmental Sciences staff		

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ES3007 Structural Geology and Tectonics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	10.00 am - 12.00 noon Thu (lectures), 2.00 - 5.00 pm (practicals)			
This module covers the principles of rock deformation and associated metamorphism, and the tectonic processes that drive this deformation. The goals of this module are: a) the development of skills in the structural analysis of rock bodies to gain an understanding of the geometries, sequencing, and kinematics of deformational features; b) understanding of tectonic principles and controls on rock deformation and mountain building.				
Programme module type:	Compulsory for BSc Geology and MGeol Earth Sciences			
Pre-requisite(s):	Normally ES2001 and ES2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 7 x 3-hour practicals during the semester and fieldwork			
	Scheduled learning: 55 hours		Guided independent study: 95 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%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr W McCarthy			
Module teaching staff:	Dr W McCarthy			

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ES3008 Geochemistry				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)			
<p>This module provides an introduction to geochemistry: the study of the abundance, distribution and circulation of the chemical elements in minerals, rocks, soils, water and the atmosphere. Geochemical tools are a powerful means to the study of geological, economic, and environmental problems.</p> <p>In the module we study the origin and distribution of the chemical elements in the Earth and solar system and review thermodynamics and kinetics as applied to Earth systems. We apply thermodynamics to make quantitative predictions regarding the outcome of chemical reactions associated with geological processes. We consider the behaviour of elements, mainly in low temperature environments. Material covered includes, aqueous geochemistry and mineral precipitation and dissolution. We utilise geochemical tools to constrain changes in earth processes and climate, and to predict the impact of future change.</p>				
Programme module type:	Compulsory for BSc Environmental Earth Science, MGeol Earth Sciences, BSc Geology and joint degrees with Biology and Chemistry			
Pre-requisite(s):	Normally ES2001 and/or ES2003			
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%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr N Allison			
Module teaching staff:	Dr N Allison, Prof A Finch, Dr J Rae, Dr P Savage			

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ES3009 Igneous and Metamorphic Petrology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Tue and Thu (lectures); 2.00 pm - 5.00 pm Mon (practicals)			
This is a core module within the BSc Geology and MGeol Earth Sciences degrees and delivered early in the Honours programme in order to provide 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, the Alps field course, Advanced Petrogenesis and Metallogeny.				
Programme module type:	Compulsory for BSc Geology, joint degrees with Biology and Chemistry, and MGeol Earth Sciences Optional for Environmental Earth Science degree.			
Pre-requisite(s):	Normally ES2001 and ES2002	Required for:	ES4006	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures (x 11 weeks), 3-hour practicals most weeks.			
	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%, 2 x 2-hour Practical Examination = 50%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Prof A Finch			
Module teaching staff:	Prof A Finch, Dr S Mikhail, Dr R White			

ES3010 Advanced Environmental Field Methods				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 5.00 pm Fri (Weeks 1 - 4)			
This forms the introduction to methodologies and training in applied environmental problems. This module starts with sessions on geophysics techniques and field-based skills training sessions. Specific environmental problems will be identified, and researched in detail before a one-week field excursion where an environmental impact problem will be addressed in the field. All travel and accommodation costs associated with the field work are provided by the School of Earth and Environmental Sciences.				
Programme module type:	Compulsory for BSc Environmental Earth Science			
Pre-requisite(s):	ES3001	Required for:	ES4008	
Learning and teaching methods and delivery:	Weekly contact: 8 field-based skills training sessions, fortnightly seminar, one 1-week field excursion, and 1-week of lab-based data analysis .			
	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%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr M Claire			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES3011 Global Biogeochemical Cycles				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>Environmental Earth Science is inherently multi-disciplinary, but many environmental science courses focus on specific reservoirs of the Earth system (e.g., the atmosphere, oceans, or continental crust), rather than examining the system as a whole. The study of global biogeochemical cycling crosses these disciplinary boundaries, following specific elements as they are cycled through the Earth surface by physical, chemical, and biological transformations. This module will focus on the cycling of the five elements critical to life on Earth - carbon, oxygen, sulfur, phosphorus, and nitrogen - using examples from both modern and ancient environments and their response to human influence. An emphasis will be placed on the understanding proxies utilised for unravelling these processes in the environment and in the rock record, along with modern quantitative methods used to constrain these cycles.</p>				
Programme module type:	Compulsory for Environmental Earth Sciences and MGeol Earth Sciences Optional for Geology, Biology and Geology, Chemistry and Geology			
Pre-requisite(s):	Normally ES2002 or ES2003, and ES3008			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 6 weeks and only 1 hour in week 7) and 3-hour practical sessions (x 7 weeks).			
	Scheduled learning: 34 hours		Guided independent study: 116 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%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr A Zerkle			
Module teaching staff:	Dr A Zerkle, Dr M Claire, Dr S Mikhail			

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ES3012 Advanced Geological and Environmental Field Methods			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>This module combines geophysical, geological and environmental field training. It starts with lectures and practical sessions on geophysics field techniques and field-based skills training sessions, as well as advanced map interpretation sessions for classic geological regions in Scotland. The second part of the module involves a one-week residential field geology excursion to the famous Assynt region of the NW Highlands. The final part of the course is a second 4-day to 1 week field excursion where an environmental problem will be the focus of the training. Locations will vary from year to year depending on staffing, and could be in the UK or abroad. All travel and accommodation costs associated with the field work are provided by the School of Earth and Environmental Sciences.</p>			
Programme module type:	Compulsory for MGeol in Earth Sciences Optional for Chemistry and Geology		
Pre-requisite(s):	ES3001	Anti-requisite(s):	ES3006, ES3010
Learning and teaching methods and delivery:	Weekly contact: Lectures and practical sessions followed by two residential field classes.		
	Scheduled learning: 88 hours	Guided independent study: 62 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100% (geophysics report = 33.3%; geological notebooks and maps = 33.3% and environmental report = 33.3%)		
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4		
Module coordinator:	Dr T Prave		
Module teaching staff:	Dr R Bates, Dr M Claire, Dr T Prave, Dr A Zerkle		

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ES3099 Field Methods in Geosciences				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to visiting students.			
Planned timetable:	none - field-based module.			
<p>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 central Spain Sierra Norte region, the NW Highlands region including the Moine thrust system, the Buchan and Barrovian metamorphic zones in the Dalradian terrane, and the Carboniferous sequences of NE England and Fife.</p>				
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 - this is predominantly a residential field-based module.			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr W McCarthy			
Module teaching staff:	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:	2017/8 & 2018/9		
Planned timetable:	12 days fieldwork in August - September. 9.00 am - 5.00 pm Fri (practicals)		
<p>Building on the field training at Junior Honours level, 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, examining and synthesising all aspects of a region to interpret a complex geological history. 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 map and aerial photograph interpretation and the construction of cross-sections. All travel and accommodation costs associated with the field work are provided by the School of Earth and Environmental Sciences</p>			
Programme module type:	Compulsory for BSc Geology Either ES4001 or ES4008 is compulsory for MGeol Earth Sciences		
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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr T Prave		
Module teaching staff:	Earth and Environmental Sciences staff		

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ES4002 Research Review, Essay and Seminar				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	BSc students may only take this module in semester 1, MGeol students can take this module in either semester.			
Planned timetable:	Not applicable.			
<p>The student proposes an Earth Science topic, one that has not been directly covered in a module. They discuss the suitability of the topic with a lecturer who agrees to become adviser to the student. Student and adviser are required to meet 2 further times during the module. Literature and web-based research is conducted and the student writes a critical review of ca. 3,500 words. The same material is also presented in a 15 minute seminar to staff and classmates. Advice on critical writing and presenting talks is given a year before the start of the module, on entry to Junior Honours, for use throughout the Honours programme. The seminar is assessed by both lecturers and peers.</p>				
Programme module type:	Compulsory for BSc Geology and Environmental Earth Science, and MGeol Earth Sciences			
Pre-requisite(s):	Admission to an Honours Earth Sciences programme or Environmental Earth Science			
Learning and teaching methods and delivery:	Weekly contact: Occasional lecture and 3 meetings with adviser spread across the semester.			
	Scheduled learning: 10 hours		Guided independent study: 140 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%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr C Cousins			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES4003 Research Dissertation				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to Single Honours BSc 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).</p> <p>(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			
Pre-requisite(s):	Admission to an Honours Earth Sciences programme or Environmental Earth Science			
Learning and teaching methods and delivery:	Weekly contact: Regular meetings with supervisor arranged as required.			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R Bates and Dr T Raub			
Module teaching staff:	Earth and Environmental Sciences staff			

ES4007 Petroleum Exploration and Geophysics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 Sciences			
Pre-requisite(s):	Normally ES2001 and (ES2002 or ES2003)			
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%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr R Bates			
Module teaching staff:	Dr R Bates			

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ES4008 Environmental Excursion				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	6 days fieldwork preceding Senior Honours. 9.00 am - 5.00 pm Fri (practicals)			
This module is designed to provide advanced field-based training in a variety of environmental and geochemical analytical techniques of utility to solving geo-environmental problems. The field course will be thematic and examine environmental aspects of a region using an integrated approach. Theme and location may vary. Additional post-trip analyses may include geophysical and remotely sensed data, GIS and laboratory work. All travel and accommodation costs associated with the field work are provided by the School of Earth and Environmental Sciences.				
Programme module type:	Compulsory for BSc Environmental Earth Science Either ES4001 or ES4008 is compulsory for MGeol Earth Sciences			
Pre-requisite(s):	ES3010 or ES3012			
Learning and teaching methods and delivery:	Weekly contact: 6 day field course and 4 lab sessions.			
	Scheduled learning: 60 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: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Burke			
Module teaching staff:	Dr A Burke, Dr J Rae			

ES4010 Joint Honours Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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:	EITHER (ES4010 and CH4448) OR ID4441 are compulsory for joint degrees with Chemistry			
Pre-requisite(s):	Admission to Joint Honours Geology and Chemistry			
Learning and teaching methods and delivery:	Weekly contact: Regular meetings with supervisor arranged as required.			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R Bates and Dr S Mikhail			
Module teaching staff:	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:	2017/8 & 2018/9			
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 MGeol Earth Sciences			
Pre-requisite(s):	Normally ES2001 and ES2002 and Entry to MGeol Earth Sciences			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Prof A Finch			
Module teaching staff:	Earth and Environmental Sciences staff			

ES4012 Research Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 MGeol Earth Sciences			
Pre-requisite(s):	Normally ES2001 and ES2002 and Entry to MGeol Earth Sciences			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Prof A Finch			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES4031 Analytical Sciences			
SCOTCAT Credits:	5	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available to students on the MSc Geochemistry degree and Geography Honours programme.		
Planned timetable:	To be arranged.		
<p>This module is designed to support students who do not have a strong background in the analytical methods used in Earth Science. These include, for example, students enrolled in BSc Geography or MSc Geochemistry degree programmes. The module comprises a series of seven lectures starting with the basic principles of accuracy and precision, which are then illustrated in the context of the most common analytical methods used in the geosciences. Students are asked to independently research an analytical method of interest. This is then presented in a poster imitating the poster sessions at major conferences. Posters are marked by both students (peer assessment) and staff (different weighting). The module will give students the necessary training to allow them to excel in other Earth Science modules.</p>			
Programme module type:	Optional for Geography or Sustainable Development students.		
Co-requisite(s):	Any Level 4 or 5 module for BSc students.	Anti-requisite(s):	EG4031
Learning and teaching methods and delivery:	Weekly contact: 7 x 1-hour lectures and 1 x 8-hour poster presentation day over the semester.		
	Scheduled learning: 15 hours	Guided independent study: 35 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (Poster session) = 100%		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr R Wilson		
Module teaching staff:	Earth and Environmental Sciences staff		

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ES4801 Geology Field Camp in Scotland				
SCOTCAT Credits:	24	SCQF Level 10	Semester:	Summer
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Not available to students on St Andrews degree programmes.			
Planned timetable:	Full time for 5 weeks			
<p>This module aims to train students in advanced geological field skills and mapping, and focuses on providing a comprehensive training of best practice in geological fieldwork. Scotland is the ideal natural laboratory for this; it offers classic exposures of a variety of rock types relevant to key periods throughout three billion-years of Earth History.</p> <p>The taught content of the module includes lectures, staff-led fieldwork, group workshops, practical laboratories, and computer-based lab exercises. Independent fieldwork is a core part of the module. Module assessment is based on the quality of field notebooks, field and office maps, and group participation, as well as through a multiple choice test and a final independent digital map and project report. Feedback is provided every week and is therefore iterative, allowing students to learn from past assessments throughout the module. Extensive feedback is provided during fieldwork as field notebooks and maps are reviewed and discussed during evening "surgeries".</p>				
Programme module type:	Not available to students on St Andrews degree programmes.			
Learning and teaching methods and delivery:	Weekly contact: 9.00 am - 11.00 am lectures, 10.00 am - 6.00 pm Fieldwork			
	Scheduled learning: 200 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 = 80%, Final Project = 20%			
Re-assessment pattern:	No re-assessment available			
Module coordinator:	Dr W McCarthy			
Module teaching staff:	Earth & Environmental Sciences staff			

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ES5001 Expedition Field Course				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	Summer
Academic year:	2017/8 & 2018/9			
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 successful 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. A (formatively assessed) presentation may be required if funding was provided by an external body. Some student groups may choose to use this module to carry out ambitious fieldwork in a remote setting. The students are responsible for finding the costs associated with the fieldwork component of this module, but external funding has been successfully won in recent years.</p>				
Programme module type:	Optional for MGeol in Earth Sciences.			
Pre-requisite(s):	Entry to Year 5 of MGeol 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%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Prof A Finch			

ES5003 Research Dissertation				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<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 MGeol Earth Sciences.			
Pre-requisite(s):	Entry to Year 5 of MGeol Earth Sciences			
Learning and teaching methods and delivery:	Weekly contact: Regular meetings with supervisor arranged as required.			
	Scheduled learning: 30 hours		Guided independent study: 570 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (Project proposal = 5%, Oral Presentation = 10%, Dissertation = 85%)			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr S Mikhail			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES5005 Isotope Geochemistry: Theory, Techniques, and Applications			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>Isotope geochemistry has grown over the last 50 years to become one of the most important fields in the Earth sciences. The growth in the importance of isotope geochemistry reflects its remarkable success in solving fundamental problems in mantle formation, ore genesis, hydrology, hydrocarbon formation, crustal evolution, planetary formation, geochemical cycles, hydrothermal circulation, ocean circulation, and climate and environmental change. In this module, we will explore the theory of isotopes and their fractionation, including kinetic, equilibrium, and Rayleigh fractionation. We will also learn how isotope measurements are made, with an introduction to mass spectrometry methods, techniques, and analysis. The latter half of the course will be devoted to case studies and applications of isotopes to interesting problems across Earth Sciences including the evolution of the atmosphere, the formation of the solar system and planets, and climate and carbon cycle reconstructions. These case studies will introduce concepts such as clumped isotopes, isotope mass balance, mass independent fractionation, and radionuclide disequilibria.</p>			
Programme module type:	Optional for BSc Geology, BSc Environmental Earth Sciences and MGeol Earth Sciences.		
Pre-requisite(s):	For current BSc students, normally ES3008 or CH1401, CH1402, and CH2501.		
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 10 weeks), 3-hour practical sessions (x 3 weeks)		
	Scheduled learning: 29 hours	Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%		
	As used by St Andrews: 2-hour Practical (Open Book) Examination = 50%, Coursework = 50%		
Re-assessment pattern:	2-hour Practical (Open Book) Examination = 80%, Coursework = 20%		
Module coordinator:	Dr A Burke		
Module teaching staff:	Dr A Burke, Dr P Savage		

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ES5009 Geodynamics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 10.00 am Tue and Wed; 9.00 am - 5.00 pm Fri (Weeks 2,5,9)			
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. 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.				
Programme module type:	Optional for MGeol Earth Sciences, BSc Geology, Environmental Earth Science, and joint degrees in Biology and Chemistry.			
Pre-requisite(s):	Normally ES2001 and (ES2002 or ES2003)	Anti-requisite(s):	ES4009	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures(x 11 weeks) , plus 2 extended laboratory classes, and 2 days in the field during the semester.			
	Scheduled learning: 50 hours		Guided independent study: 100 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%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr R White			
Module teaching staff:	Dr T Raub, Dr R White			

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ES5010 Advanced Geochemistry			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>Many of the environmental challenges facing society revolve around the cycling of natural materials between fluid and solid phases. Some of the most fundamental aspects of Earth System development are investigated through geochemical methodologies that characterise and interrogate processes operating at the interface between the solid Earth and the fluid Earth. Further, the processes that concentrate many natural resources are a result of fluid-solid interactions that can be studied using organic and aqueous geochemistry. This module focuses on training in the state-of-the art techniques and methodologies that are tools that can be applied widely to address questions about environmental changes and chemistry in sediments and natural waters and, as well as utilisation and exploitation of hydrocarbon resources and Earth System evolution through time.</p>			
Programme module type:	Optional for MGeol Earth Sciences, BSc Geology, Environmental Earth Science, and joint degrees in Biology and Chemistry.		
Pre-requisite(s):	Normally ES3008		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 10 weeks) 5 x 3-hour practical sessions and 1 x 8-hour session of project presentations over the semester.		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is <4		
Module coordinator:	Dr E Stüekenn		
Module teaching staff:	Dr J Cloutier and Prof A Finch		

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ES5011 Water in the Environment				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The ability of current and future generations to understand, and predict water quality and quantity requires a solid understanding of the hydrological cycling of water, the interactions between surface and ground water reservoirs, the transport of dissolved components and water quality remediation methods. This module provides the theoretical background to surface and subsurface fluid flow and to the geochemical reactions occurring between water, soils, and sediments. Pollutant transport, bioavailability of elements, toxicity and metal and radionuclide transport will be covered within the aqueous geochemistry part of the module. This module provides a combination of the underpinning theory (fluid flow and contaminant transport) with the applied analytical tools required to better understand and ameliorate problems of water in the environment. The module assessment will include numerical modelling of a real contaminated groundwater system.</p>				
Programme module type:	Optional for BSc Environmental Earth Science, MGeol Earth Science.			
Pre-requisite(s):	Normally ES3008 but students with relevant chemistry background considered.			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures, 6 hours of laboratory work and 4 hours of tutorials over the semester.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework (including Technical Brief, Media Interview and Qualitative analysis exercise) = 60%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Singer			
Module teaching staff:	Dr M Singer			

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ES5013 Advanced Petrogenesis			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2017/8		
Planned timetable:	10.00 am Mon and Tue (lectures). 10.00 - 1.00 pm Wed or Fri (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 and MGeol Earth Sciences		
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%		
Re-assessment pattern:	2-hour Written Examination = 100%, No Re-assessment if Coursework mark is <4		
Module coordinator:	Prof A Finch		
Module teaching staff:	Prof A Finch and Dr S Mikhail		

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ES5050 Earth's Greatest Hits				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	Lectures: 11.00 am - 12.00 noon Thu, Seminars: 10.00 am - 1.00 pm Wed			
<p>This module is based around current "hot topics" in Earth science research. It will introduce cutting-edge science questions about how our planet has evolved from a ball of molten rock to the habitable blue planet it is today, and some of the major changes in its chemistry, biosphere, and climate that have happened along the way. Topics will vary from year to year, depending on staff participating in the module and the advances in Earth science research.</p> <p>This module is research-led, requiring that you read, digest, and discuss a number of topical papers each week. For some of these topics there is no given answer; instead you gain an in-depth understanding of the current state of research. Topics are introduced in lectures and then discussion seminars, organised around student presentations, are designed to encourage debate and critique of the arguments presented in the research papers.</p>				
Programme module type:	Optional for Earth Sciences MGeol, Environmental Earth Sciences BSc, Geology BSc.			
Pre-requisite(s):	Normally ES2001, ES2002 and/or ES2003 for BSc and MGeol students			
Learning and teaching methods and delivery:	Weekly contact: 7 hours of lectures and 21 hours of seminars over the semester.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Coursework (10% participation in discussion groups; 60% oral presentations; 30% review paper) = 100%			
Re-assessment pattern:	2-hour Written Examination = 100% No Re-assessment if Coursework mark is <4			
Module coordinator:	Dr J Rae			
Module teaching staff:	Earth & Environmental Sciences academic and research staff			

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ES5300 Magmatic-related Ore Deposits			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>The module focuses on the geodynamic setting, age, geometry, and mineralogy of the principal metallic mineral deposits related to magmatic processes. The different deposit types are studied using a holistic (geology, structural, geochemistry, and geophysics) mineral system approach. Current genetic models of ore deposits related to magmatic processes are reviewed with an emphasis on the geological processes required to create them. Finally, a roadmap to mineral exploration for each type of ore deposit is discussed. Deposit types discussed include magmatic Ni-Cu, magmatic PGE-Cr, porphyry, epithermal, skarn, Rare Earth Element (REE) and iron oxide copper gold (IOCG). Laboratory exercises involve geological problem solving using a mineral exploration industry focus involving the examination of geological maps and representative suites of samples (thin sections and hand samples) from different types of metallic mineral deposits.</p>			
Programme module type:	Optional for BSc Geology and MGeol Earth Sciences, and Joint Degree BSc Chemistry and Geology.		
Pre-requisite(s):	For current BSc & MGeol students, normally ES3009 or CH1401, CH1402, and CH2501.		
Anti-requisite(s):	ES5006		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures (22 hours over 10 weeks), 3 x 1-hour seminars (x 2 weeks); 3-hour practical classes (x 4 weeks)		
	Scheduled learning: 40 hours	Guided independent study: 110 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%, Practical Examination = 25%, Coursework = 25%		
Re-assessment pattern:	2-hour Written Examination = 80%, existing Practical Examination grade = 10%, existing Coursework = 10%		
Module coordinator:	Dr J Cloutier		
Module teaching staff:	Dr J Cloutier and Prof A Finch		

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ES5301 Mineral Exploration				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The purpose of this module is to learn basic concepts of mineral exploration that are used by the mineral exploration industry. The module is divided into three sections each focusing on different aspect of mineral exploration. Section 1 focuses on geochemical methods, section 2 on hyperspectral methods, and section 3 on geophysical methods. Each section discusses the theoretical background necessary to understand the different methods and introduces the different available analytical techniques, and highlights effective data acquisition. Finally, interpretation and application of datasets related to each method is conducted as practical exercises.</p>				
Programme module type:	Optional for Geology			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks), 1 practical (x 2 weeks), 1 fieldtrip (x 1 week)			
	Scheduled learning: 50 hours		Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Practical Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 80%, grade derived from Previous Coursework = 20%			
Module coordinator:	Dr J Cloutier			
Module teaching staff:	Dr J Cloutier, Dr R Bates			

ES5302 Hydrothermal Ore Deposits				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The module focuses on the geodynamic setting, age, geometry, and mineralogy of the principal metallic mineral deposits related to hydrothermal processes. The different deposit types are studied using a holistic (geology, structural, geochemistry, and geophysics) mineral system approach. Current genetic models of ore deposits related to hydrothermal processes are reviewed with an emphasis on the geological processes required to create them. Finally, a roadmap to mineral exploration for each type of ore deposit taught is discussed. Deposit type discussed in the module includes orogenic gold, VMS, SEDEX, Mississippi Valley-type, unconformity-related uranium deposits, and sedimentary-hosted stratiform copper deposits. Laboratory exercises involve geological problem solving using a mineral exploration industry focus involving the examination of geological maps and representative suites of samples (thin sections and hand samples) from different types of metallic mineral deposits.</p>				
Programme module type:	Optional for Geology			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 practical (x 3 weeks), 1 field trip			
	Scheduled learning: 40 hours		Guided independent study: 110 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 25%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 80%, existing Practical Examination mark = 10%, existing Coursework = 10%			
Module coordinator:	Dr J Cloutier			
Module teaching staff:	Dr J Cloutier, Prof A Finch			

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ES5303 Applied Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged			
This module aims to train students in applied geological field skills. The module focuses on creating and interpreting surface and underground maps, and drill core logs. Module assessment is based on the quality of field notebooks, maps, logs, and group participation.				
Programme module type:	Optional for MGeol			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures (x 3 weeks), 12 hours of practicals (x 2 weeks) and 17.5 hours of fieldwork (x 4 weeks)			
	Scheduled learning: 100 hours		Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:				
Module coordinator:	Dr W McCarthy			
Module teaching staff:	Dr J Cloutier, Dr W McCarthy, Dr T Prave			

ES5304 3D Geological Modelling				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged			
This module aims to familiarise students with three-dimensional geological modelling using the industry-standard pieces of software. The module emphasises the creation, validation and interpretation of geological and structural models, as well as their use in mineral exploration and mineral resource estimation. Module assessment is based on the quality of three-dimensional models created and group participation.				
Programme module type:	Optional for MGeol			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of lectures (x 5 weeks), 3 hours of practical classes (x 5 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:				
Module coordinator:	Dr J Cloutier			
Module teaching staff:	Dr J Cloutier, Dr R Bates			

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ID4441 Combined Chemistry and Geology Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Academic year:	2018/9			
Planned timetable:	2 days per week.			
The research project at Level 4000 for Chemistry and Geology students only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised jointly by members of the academic staff in Chemistry and Geoscience. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology			
Pre-requisite(s):	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geology			
Anti-requisite(s):	CH4442-CH4448, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Reflection, laboratory work, library work, written and oral presentation preparation.			
	Scheduled learning: 34 hours		Guided independent study: 466 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:				
Module coordinator:	Dr T A Raub (Earth Sciences), Dr A Aitken (Chemistry)			

ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module provides an individual research project on a topic spanning the biological and geological sciences which allows the student to pursue in depth a topic of personal interest. The student works largely independently of supervision and has the opportunity to demonstrate individuality, initiative and enterprise. The project will be supported by advisors in both Biology and Geology. Skills of planning and executing research are learnt, as well as the ability to work independently, and present the results orally and in dissertation form (up to 10,000 words). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for BSc 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%			
Re-assessment pattern:	No Re-Assessment available			
Module coordinator:	Dr S Mikhail and Dr T Raub			
Module teaching staff:	Dr T Raub			

School of Economics & Finance

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Economics (EC) modules

EC3301 Econometrics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The module develops student understanding of the classical linear econometric model (ordinary least squares). This will cover a range of topics including: estimation and inference in multivariate regression models; the use of limited dependent variables; large sample properties of OLS estimators; multicollinearity and heteroskedasticity. Student understanding of key econometric concepts and their application to economics will be developed, allowing them to estimate, interpret, test and critically evaluate economic relationships. The module will develop students applied skills through the use of appropriate econometric software.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, BA (Int Hons) Economics and Economics as a major Optional for joint honours Economics.			
Pre-requisite(s):	Permission of the Economics Honours Adviser.			
Anti-requisite(s):	EC3202	Required for:	EC4401	
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 2-hour practical classes (x 4 weeks) 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 33 hours		Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Polisson			

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EC3302 Decision and Game Theory			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
Decision and Game Theory focuses on the decisions of economic agents and their behaviour in interactive situations. This module will teach the basics of strategic thinking, aiming to guide students' understanding of the common roots of many social and economic dilemmas. Beginning with the discussion of simple games, analytic tools will be introduced progressively leading the discussion of numerous applications like auctions, bargaining, oligopoly, financing decisions, voting, and many more.			
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Pre-requisite(s):	Permission of the Economics Honours Adviser.		
Anti-requisite(s):	EC3201, EC4201		
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 25 hours	Guided independent study: 175 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 (incl. Class Test 15%) = 40%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof A Zapechelnyuk		
Module teaching staff:	Prof A Zapechelnyuk		

EC3303 Economic Growth				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>Growth is one of the core issues in Economics which has intrigued economists for more than a century. In spite of their effort, many questions remain unanswered, making this one of the most interesting and challenging field in Economics. A recurring theme of this course will be the question "Why are some countries so rich, while others are so poor?" The main objective of this course will be to apply economic theory to better understand and interpret empirical observations with respect to economic development and growth. In this course, we will study the main facts characterizing economic development and growth over time and across countries and the ability of theoretical models to account for these facts.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	Permission of the Economics Honours Adviser.			
Anti-requisite(s):	EC3203, EC4201			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr R Stefanski			
Module teaching staff:	Dr R Stefanski			

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EC3304 Mathematical Economics			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
The module covers the basic mathematical tools used in economic theory. Good knowledge of elementary calculus will be assumed. The main topics are multivariate calculus, concavity and convexity, optimization theory, differential equations, and dynamic optimization. The main goal is that students learn to use the tools, so the emphasis will be on techniques and their applications to fundamental economic models rather than abstract theory.			
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Pre-requisite(s):	Permission of the Economics Honours Adviser.		
Anti-requisite(s):	EC3201, EC3203, EC4201		
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 25 hours	Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Test 25% each) = 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr M Zhang		
Module teaching staff:	Dr M Zhang		

EC3305 Incentives, Contract and Markets				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module will address economic institutions when agents interact under informational asymmetries. The main models of the theory of contracts, particularly the basic models of adverse selection, signalling, and moral hazard, as well as the theory of mechanism and market design, will be discussed with emphasis on their applications for understanding the internal organisation of firms, taxation, regulation, insurance and labour markets, education, and many other aspects of economics.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	Permission of the Economics Honours Adviser.			
Anti-requisite(s):	EC3201, EC4201			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Tests 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr G Gerasimou			
Module teaching staff:	Dr G Gerasimou			

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EC3306 Economic Fluctuations			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>Economic growth is not steady but features a series of expansions and contractions. These economic fluctuations are of primary concern to economic policy makers and have been the source of some of the most intense debates in all of economics. A recurring theme of this course will be the question "Where do economic booms and busts come from?" and the module's main objective is to provide an advanced understanding of the macroeconomics behind this volatility. Students will be introduced to the main facts characterizing economic fluctuations as well as a range of formal analytical models that will help develop their understanding of key macroeconomic and monetary relationships. Finally, they will examine how well these models account for the observed facts.</p>			
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Pre-requisite(s):	Permission of the Economics Honours Adviser.		
Anti-requisite(s):	EC3203, EC4201		
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 25 hours	Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr R Stefanski		
Module teaching staff:	Dr R Stefanski		

EC4401 Advanced Econometrics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The module seeks to equip students with advanced skills in data analysis by introducing a number of estimation methods commonly used in economics. These include, limited dependent variable models, pooled cross-section and panel models, two-stage least squares, time series methods and simultaneous equation models. The module builds upon the knowledge of the linear regression model acquired in EC3301.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	EC3301 or MT3508	Anti-requisite(s):	EC4202, EC4602	
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, , 2-hour practical classes (x 3 weeks), 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 31 hours		Guided independent study: 169 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Test 25% each) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof R McCrorie			
Module teaching staff:	Prof R McCrorie			

EC4402 Economic History				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
An understanding of economic history lends clarity to many questions in economics. Among these are: The extent and impact of globalization; the determinants of the wealth of nations; the occurrence and impact of financial crisis; and the importance of economic institutions. Each of these putatively modern questions have long historical antecedents. We will treat these questions with a modern rigour, studying work that uses theoretical and econometric analysis.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4602			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Trew			
Module teaching staff:	Dr A Trew			

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EC4403 Health and Education				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module explores economic perspectives on health and education. After introducing human capital theory, we will use this lens to examine the decision to invest in schooling and review empirical estimates of the returns to education. We will also consider policy interventions to improve education. In the second part of the course we will study the demand and supply of health services, paying particular attention to the issues surrounding public and private health insurance. We will also discuss public intervention directed at health behaviours. The module will conclude by examining the joint production of health and education, with a focus on early childhood.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4603			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 15 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Leighton			
Module teaching staff:	Dr M Leighton			

EC4405 Economics of the Environment				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The aim of this module is to introduce basic ideas, methods and problems of environmental economics and policy building on current scientific evidence and a knowledge of economics. The political economy background will be emphasized. Specific problems of developing countries and their relations to the developed world will be studied.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4505, EC4605			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J Jin			
Module teaching staff:	Dr J Jin			

EC4406 Experimental Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The purpose of this module is to expose students to the methodology of experimental economics and to give an overview of some of its uses in different areas of economics. The areas of experimental economics covered are the study of markets, the study of public choice issues, and individual choice behaviour. The module is designed so as to allow the student hands-on experience of participating in demo experiments in the tutorials/laboratories. Students' understanding of key economic concepts will be deepened through the lens of experimental economics. The module will develop students applied skills as students will learn how to summarize and interpret data from an economics experiment.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4506, EC4606			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Tests 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof M Costa-Gomes			
Module teaching staff:	Prof M Costa-Gomes			

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EC4407 Behavioural Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
Behavioural economics combines traditional neoclassical microeconomics and empirically motivated assumptions with the goal of providing a better understanding of economic behaviour and welfare in settings that range from single-person decision problems under certainty, risk or uncertainty to multi-person decision problems. The module will introduce theoretical models that deviate from the standard assumptions of rational choice in order to explain observed behavioural patterns that arise both in single-period as well as in multi-period decision problems. When relevant, policy implications/responses will also be discussed.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4507, EC4607			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Tests 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr G Gerasimou			
Module teaching staff:	Dr G Gerasimou			

EC4408 Industrial Organisation and Regulations				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module is an analytical treatment of industrial organisation in a dynamic context, providing rigorous coverage of core areas of the subject, supported mostly by both theoretical models and some econometric studies. The Topics covered are as follows: Modules of intra-industry competition, including discussion in game theoretic terms; market structures, economies of scale, entry and exit; product differentiation, innovation; mergers.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4508, EC4608			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-Hour Written Examination = 50%, Coursework (including Class test 25%) = 50%			
Re-assessment pattern:	2-Hour Written Examination = 100%			
Module coordinator:	Dr M La Manna			
Module teaching staff:	Dr M La Manna			

EC4409 International Macroeconomics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module provides a comprehensive treatment of selected aspects of international macroeconomics. The course makes intensive use of mathematical techniques of exchange rate modelling. The module aims to deepen understanding of the functioning of the international monetary and financial system, and to familiarise students with some key issues in the literature of international macroeconomics.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4509, EC4609			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr O Senay			
Module teaching staff:	Dr O Senay			

EC4410 International Trade				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module introduces basic facts and theoretical models regarding economic interconnections within an increasingly integrated world. Its aim is to provide students a global view and understanding of interdependence among all countries. Its content includes a current and an historical overview of trade and its impact on economic growth, the classic theory of free trade, recent developments in theoretical models and relevant empirical evidence and major policy issues arising in open economies that are becoming more relevant today. The module will cover traditional (neoclassical) economics and also discuss various challenges presented to such a framework, especially based on experience of developing countries.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4610			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J Jin			
Module teaching staff:	Dr J Jin			

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EC4411 Economics of Labour				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4511, EC4610			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 20%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr I Merkurieva			
Module teaching staff:	Dr I Merkurieva			

EC4413 European Macroeconomics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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 a single market for trade and then monetary union, the module provides a thorough examination of the theory of optimum currency areas, including trade and capital market linkages; convergence; and the role of exchange rate stability (real or nominal) from a European perspective. We then investigate the monetary policy strategy of the ECB; the need for and use of fiscal policy in a currency union; the Stability Pact; fiscal federalism; the relationship between fiscal and monetary policy; and the desirability of fiscal rules to ensure financial sustainability. Finally, we will examine labour market difficulties and structural reform in the EU.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4613, EC4513			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr G Mitka			
Module teaching staff:	Dr G Mitka			

EC4414 Macroeconomic Policy				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The module is designed to provide a specialised understanding of both monetary policy and fiscal policy issues. The lectures will cover a broad range of issues. These may include central bank independence, monetary policy transparency and accountability, monetary policy targets, Taylor rules and inflation targeting, monetary and fiscal policy in a depressed economy, monetary and fiscal policy interaction. We will also look at the operation of monetary policy in a number of institutions (e.g. ECB, Bank of England).				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4514, EC4614			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr P Macmillan			
Module teaching staff:	Dr P Macmillan			

EC4415 Public Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module will apply microeconomic reasoning to the study of the public sector. It will survey the scope and different modes of public intervention in the economy, with particular emphasis on the welfare state and income redistribution. It will discuss the optimal provision and financing of public and private goods, the design of tax systems, as well as other issues in public finance such as devolution, regulation and the auctioning of public assets.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4615, EC4515			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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EC4416 Innovation Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4503, EC4616			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M La Manna			
Module teaching staff:	Dr M La Manna			

EC4417 Financial Economics: Asset Pricing				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The main aim of this module is to provide a rigorous grounding in the theory and applications of finance and a thorough synthesis of the most important current research in finance, with a particular emphasis on the applications of the principles. The ultimate aim is to provide students with a standard approach to define, measure, as well as predict the value of financial claims 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. Both normative and positive aspects of financial theory will be investigated, together with supporting descriptive and empirical evidence.</p>				
Programme module type:	Compulsory for Financial Economics Optional for all Economics degrees and BA (Int Hons) Economics			
Anti-requisite(s):	EC4501, EC4617			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L Savorelli			
Module teaching staff:	Dr L Savorelli			

EC4418 Financial Economics: Corporate Finance				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<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. 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 Financial Economics Optional for all Economics degrees and BA (Int Hons) Economics			
Anti-requisite(s):	EC4502, EC4602			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V Prasad			
Module teaching staff:	Dr V Prasad			

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EC4419 Economics of Development			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>The module covers some important theoretical and practical aspects of development economics. In low income countries markets often fail, wealth can be distributed very unequally and the quality of governance can be variable. International markets matter for trade and aid while international bodies such as the World Bank play a crucial role. Understanding the causes of underdevelopment can help us understand how to unlock the sustained growth experienced by developed economies. Specific topics can include income inequality, poverty, education, corruption, gender, foreign investment, aid, microfinance and international trade policy. The course will draw on evidence across countries and over time, with an emphasis on developing an analytical understanding of the applied issues.</p>			
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Anti-requisite(s):	EC4519		
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorials (x 5 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 25 hours	Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (including class test 25%) = 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr M Leighton		
Module teaching staff:	Dr M Leighton and Dr V Saxena		

EC4420 Inequality and Redistribution				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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 of 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 module. 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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4520, EC4620			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr T Cuhadaroglu			
Module teaching staff:	Dr T Cuhadaroglu			

EC4421 Political Economy				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
The main goal of Political Economy is to reach a better understanding of how institutions shape policy outcomes. Standard microeconomic and game theoretical concepts are used to model the behaviour of voters and politicians, and study their interactions under different institutions. The module will cover some of the most important models in this field, providing empirical applications when relevant.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 13 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Negri			
Module teaching staff:	Dr M Negri			

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EC4424 The Economics of Migration				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>The number of international migrants has rapidly grown over the last few decades. This module explores the economic determinants and consequences of international migration, and sheds light on the often controversial policy debates surrounding immigration. Students will apply basic economic theory and empirical methods to understand the decision to migrate, the effect of immigration on labour markets and government budgets, the effect of diversity on economic performance, the effect of high-skilled emigration on source countries and immigration policies. The module will have a strong focus on the empirical evidence on immigration and will train students' ability to critically assess this evidence.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Intl Hons) Economics			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr T Barsbai			
Module teaching staff:	Dr T Barsbai			

EC4425 Econometrics of Impact Evaluation				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>Evaluating the causal effects of economic policies is an important but complex and challenging task. The purpose of this module is to introduce students to the core methods for evaluating the causal effect of economic policies and to apply these methods in practice. It will expose students to the concept of causality and explain under which assumptions the causal effect of economic policies can be identified. The module will have a strong focus on applications and will emphasise problems that economists encounter in practice when evaluating economic policies. Empirical examples will deal mainly with policies in labour economics and development economics. The laboratory sessions will discuss important empirical studies in the field and will provide students with the opportunity to apply empirical methods hands-on using Stata.</p>				
Programme module type:	Optional for all Economics degrees and BA (Int Hons) Economics			
Pre-requisite(s):	EC3301 or MT3508			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour laboratories (x 5 weeks) plus 1 optional office hour (x 12 weeks)			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr S Braun			
Module teaching staff:	Dr S Braun			

EC4430 Portfolio Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module aims to develop students' knowledge and understanding of key issues in asset allocation and portfolio composition/management at an intermediate level. Several techniques available in the field of portfolio management are utilized, investigated, as well as assessed within the context of portfolio risk management and portfolio performance maximisation. Moreover this module aims to provide students with the opportunity to develop their ability to critically understand current theoretical and empirical research in the field of portfolio management and the implications of such research into alternative portfolio composition and portfolio management strategies.</p>				
Programme module type:	Compulsory for Financial Economics Optional for all other Economics degrees, BA (Int Hons) Economics			
Anti-requisite(s):	EC4204, EC4622			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M C Iannino			
Module teaching staff:	Dr M C Iannino			

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EC4498 Research Project in Economics			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the final year of their degree programme with at least 60 credits in Honours Economics modules.		
Planned timetable:	To be arranged.		
This module is designed to develop students' independent research, writing and presentation skills in the application of economic analysis to a selected topic in economics. The project will require initiative, a critical discussion of existing research and development of an argument. The project may also include econometric study of a problem. The permitted length is between 6,000 - 8,000 words.			
Programme module type:	Optional for Single and Joint Honours Economics, Financial Economics		
Pre-requisite(s):	Students must be in the final year of their Honours programme and have already accumulated at least 60 credits in 3000 or 4000 level Economics modules.		
Anti-requisite(s):	EC4499		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 5 weeks), 1 supervision meeting (x 3 weeks)		
	Scheduled learning: 8 hours	Guided independent study: 192 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%		
	As used by St Andrews: Research Project = 80%, Coursework = 20%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr S Braun		
Module teaching staff:	Dr S Braun		

EC4499 Dissertation in Economics			
SCOTCAT Credits:	40	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the second year of any Honours Economics Programmes.		
Planned timetable:	None, but attendance at the departmental research colloquia required.		
<p>This module is designed to develop students' independent research, writing and presentation skills. The dissertation should present original research applying economic and/or econometric methods to a selected topic in economics. The topic should be chosen by students in consultation with their supervisor. Students require approval for their preliminary dissertation outline from both the supervisor and the Principal Module Teacher by the end of the first week of Semester 1. The maximum number of words allowed is 15,000 but students will be advised to cover the topic in around 12,000. The lecture part of the module will train students' research skills in framing a research hypothesis, conducting bibliographic research, writing a literature survey, structuring a research paper, and presenting research results.</p>			
Programme module type:	Optional for Single & Joint Honours Economics, Financial Economics		
Pre-requisite(s):	EC3301 and 40 credits from EC3302-EC3350, EC4401.		
Anti-requisite(s):	EC4498		
Learning and teaching methods and delivery:	Weekly contact: 5 lectures and 6 meetings with supervisor over the year.		
	Scheduled learning: 11 hours	Guided independent study: 389 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%		
	As used by St Andrews: Dissertation = 80%, Coursework = 20%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr S Braun		
Module teaching staff:	TBC		

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EC5201 Macroeconomics			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	UG - Available only to students in the second year of the Honours programme with the permission of the Director of Teaching who have achieved at least 17.5 in EC3303 or EC3306.		
Planned timetable:	To be arranged.		
<p>The module will provide a thorough advanced treatment of the core models and concepts used in modern macroeconomics; for example the infinite horizon Ramsey model and finite horizon overlapping generations model and models that have been used to characterise short term fluctuations, such as the real business cycle approach and the New Keynesian approach. Among other things, the module will seek to explain the development of microbased macroeconomic theory, use models to predict the impact of policy changes on endogenous variables and critique modelling assumptions, especially in the context of policy analysis. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.</p>			
Programme module type:	Optional for all Economics Degrees		
Pre-requisite(s):	EC3303 or EC3306 and Permission of the Director of Teaching.		
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 30 hours	Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 88%, Practical Examinations = 0%, Coursework = 12%		
	As used by St Andrews: 3-hour Written Examination = 75%, Coursework (including class test 12.5%) = 25%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr O Senay		
Module teaching staff:	Dr O Senay		

EC5202 Microeconomics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	UG - Available only to students in the second year of the Honours programme with the permission of the Director of Teaching who have achieved at least 17.5 in EC3302 or EC3305.			
Planned timetable:	To be arranged.			
<p>This module will provide a thorough advanced treatment of the core models and concepts used in modern microeconomics. Microeconomic theory is concerned with the behaviour of individual economic actors (e.g. firms, consumers) and the aggregation of their actions in different institutional frameworks (e.g. markets), and models economic activity as an interaction of individual economic agents pursuing their private interests. Students will be presented with a set of concepts and mathematical techniques which will enable them to achieve a better understanding of economic activity and outcomes. This involves an understanding of how microeconomic models are built, focusing on their objective in terms of the phenomenon they are meant to explain, and the consequences of their assumptions in terms of the applicability of their predictions. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.</p>				
Programme module type:	Optional for all Economics degrees			
Pre-requisite(s):	EC3302 or EC3305 and Permission of the Director of Teaching			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 88%, Practical Examinations = 0%, Coursework = 12%			
	As used by St Andrews: 3-hour Written Examination = 75%, Coursework (including class test 12.5%) = 25%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Ozbek			
Module teaching staff:	Dr K Ozbek			

EC5203 Econometric Methods and Applications			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	UG - Available only to students in the second year of the Honours programme with the permission of the Director of Teaching who have achieved at least 17.5 in EC4401.		
Planned timetable:	To be arranged.		
<p>This module will provide an advanced level training in aspects of econometric methods that is suitable for the basis for further work in econometrics and for understanding/being able to extract econometric techniques in published articles. The course will also give students the basis to support an empirical section in their MSc dissertation. Students are expected to have intermediate- level knowledge of matrix algebra, calculus and statistics. Before commencement of the module, supplementary lectures will be given on the relevant mathematical and statistical methods.</p>			
Programme module type:	Optional for all Economics degrees		
Pre-requisite(s):	EC4401 and Permission of the Director of Teaching.		
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 8 weeks), 2-hour computing labs (x 2 weeks) plus 1 office hour (x 12 weeks)		
	Scheduled learning: 32 hours	Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 65%, Practical Examinations = 0%, Coursework = 35%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework (including class test 15%) = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr I Merkurieva		
Module teaching staff:	Dr I Merkurieva		

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School of English

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

English (EN) modules

EN3111 Beowulf				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am and 11.00 am Fri			
<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 BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004	Anti-requisite(s):	EN3010, ME3012	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rauer			
Module teaching staff:	Dr C Rauer			

English - Honours Level - 2017/8 - August 2017

EN3112 Chaucer's Canterbury Tales				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Wed			
This module consists of the study of Chaucer's Canterbury Tales for its individual tales and as a whole, with regard to such key features as genre, structure, mediaeval literary thought and gender. (Group A)				
Programme module type:	Group A Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (either 1 x 2-hour seminar or 1 lecture and 1 seminar), and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr I Johnson and Prof A Coldiron			
Module teaching staff:	Dr I Johnson and Prof A Coldiron			

EN3113 Older Scots Literature to 1560				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M R Purdie			
Module teaching staff:	Dr M R Purdie			

EN3141 Tragedy in the Age of Shakespeare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1 & 2 (taught twice)
Academic year:	2017/8 & 2018/9			
Planned timetable:	S1 - 12.00 noon Tue and 12.00 noon Thu, S2 - 3.00 pm - 4.00 pm Thu, 4.00 pm - 5.00 pm Fri			
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 BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N P P Rhodes (S1) Dr G Pertile (S2)			
Module teaching staff:	Prof N P P Rhodes (S1) Dr G Pertile (S2)			

EN3142 Renaissance Literature: Texts and Contexts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon Tue and 2.00 pm 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 BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N P P Rhodes			
Module teaching staff:	Prof N P P Rhodes			

English - Honours Level - 2017/8 - August 2017

EN3161 The Development of the Novel to 1840				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am Tue and 12.00 noon Thu			
This module is designed to allow students to acquaint themselves with some of the principal novels of the period 1720-1840 together with the social background from which they derive. It will show the development of the novel form from its earliest stages to its establishment as the dominant literary form in the nineteenth century. It forms part of the critical and historical study of literature available to students in the School and the Faculty. (Group C)				
Programme module type:	Group C Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

EN3162 Revolution and Romanticism: Literature, History and Society (1789-1805)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 C Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 hours: seminars, lectures, or tutorials, and 2 optional consultative hours.			
	Scheduled learning: 20 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: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N H Roe			
Module teaching staff:	Prof N H Roe			

EN3163 The Younger Romantics: Poetry and Prose (1810 - 1830)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am Thu and 11.00 am Fri			
This module aims to acquaint students with some principal poetic and prose texts of the second generation of English Romantic writers. (Group C)				
Programme module type:	Group C Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004	Required for:	EN4366	
Learning and teaching methods and delivery:	Weekly contact: 2 hours: seminars, lectures or tutorials, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

EN3165 'Loose Baggy Monsters': The Rise and Fall of the Victorian Novel				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Wed			
In spite of what Henry James's famously disparaging characterisation of Victorian novels as 'loose baggy monsters' might suggest, the novel was, without a doubt, the dominant cultural form of the Victorian period. From the prudent and proper to the rude and risqué, and from the 1830s to the fin de siècle, the Victorian novel was, in its own time, a capacious, malleable and contested form of cultural production, and one which continues to resist easy categorisation today. On this module we will explore the rich heterogeneity of the Victorian novel through close examination of works by a range of canonical and non-canonical authors. We will examine the changing shape of the novel throughout the nineteenth century (from the sprawling 'monstrosity' of the triple-decker to the compact neatness of the proto-modernist aesthetic of the 1890s), as well as the range of novelistic genres that proliferated at this time (including realism, sensation, the industrial novel, Victorian gothic, horror, adventure, and science fiction), and consider the ways in which the cultural, social and political values of Victorian Britain are both encoded and contested in the novels of the age.				
Programme module type:	Group C Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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EN3166 Victorian Poetry's Voices			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	9.00 am - 11.00 am Tue		
<p>Throughout the Victorian period poetry was viewed simultaneously as the highest mode of artistic expression and as a marginal practice, consigned to the periphery of culture by the novel, the newspaper, and other popular forms of writing. This ambiguity sparked a series of debates about the place of poetry in modern culture, as Victorian poets tried to define and defend the value and purpose of their work. This module will explore these debates by focusing on the concept of 'voice' in a range of canonical and non-canonical poems. The module will consider how Victorian poets experimented with the forms and conventions of verse in order to speak in different voices, writing innovative poems that undermined the barrier between literary language and the patterns of everyday speech, and that interrogated the links between language and personal identity. It will also examine the ways in which poets used the diverse voices of their writing to address the social and political issues that shaped Victorian culture.</p>			
Programme module type:	Group C Optional for English and BA (Intl Hons) English)		
Pre-requisite(s):	EN2003, EN2004	Anti-requisite(s):	EN4364
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar, and 2 optional consultative hours.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr G Tate		
Module teaching staff:	Dr G Tate		

EN3201 Literary Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Fri			
<p>This module is designed to guide students through some fundamental questions in literary theory, and introduce them to the writing of some canonical critical theorists. Week by week, in a series of two-hour sessions, students will be introduced to a question or problem in literary interpretation, such as the role of the unconscious in writing, the ideas of ethnicity and nation and their influence on literature and culture. By reading a selection of theoretical texts each week, students will develop an understanding of these fundamental questions. Students will be introduced to the terminology of the various different theoretical positions studied; gaining familiarity with feminist, psychoanalytical, Marxist, post-colonial and post-structuralist concepts and terms, amongst others. Students should be able to understand these terms and employ them in their own work in a clear and unpretentious manner. Over the course of this module students will also have to consider the methodology of other disciplines in the arts, humanities and social sciences (philosophy, anthropology, political theory and history, for example), and ask how the methodology of literary studies is related to those other disciplines. (Group E)</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Raychaudhuri			
Module teaching staff:	Dr A Raychaudhuri			

English - Honours Level - 2017/8 - August 2017

EN3202 Literature and Ecology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am Thu and 11.00 am Fri			
An introduction to the history of ecology-related literature from the transcendentalists to the present, including the nature writing tradition, ecocriticism and writing as ecology. Beginning with Emerson and Thoreau, we examine how a transcendentalist philosophy of nature influenced English-language works in the UK and USA; we also address a number of schools or trends, including feminist, regional, naturalist, Native American and other indigenous thinking, as well as the implications of ecocritical writing for a wider field, including other literary-critical approaches, economics and history. (Group E)				
Programme module type:	Group E Optional for English. Optional for Sustainable Development.			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Burnside			
Module teaching staff:	Prof J Burnside			

EN3207 Twentieth-Century British and Irish Drama				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Haddow			
Module teaching staff:	Dr S Haddow			

EN3212 Modernist Literature: Making It New?				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	3.00 pm - 5.00 pm Thu			
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)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
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: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr B Carver			
Module teaching staff:	Dr B Carver			

EN3213 Postcolonial Literature and Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	1.00 pm Tue and 1.00 pm Thu			
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)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L M Burns			
Module teaching staff:	Dr L M Burns			

English - Honours Level - 2017/8 - August 2017

EN3214 The Country and the City in Scottish Literature				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon - 2.00 pm Mon			
<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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P Mackay			
Module teaching staff:	Dr P Mackay			

EN3215 Atomic Cultures: Anglophone Writing and the Global Cold War				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am Tue and 11.00 am Thu			
<p>On August 6, 1945, the bombing of Hiroshima announced the beginning of a new, "nuclear" age. As the Second World War came to an end, the victors geared up for a new and no less global conflict, a Cold War between the U.S.S.R and the western powers which would involve countless other nations, taking place by means of espionage, proxy wars, and cultural influence. This module introduces the literature and related culture of the Cold War Anglosphere, from reportage and protest lyrics to fictions of apocalypse, espionage, and paranoia, and explores how the radioactive energy of the atomic age reshaped the twentieth-century imagination. (Group E)</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar plus 2 optional consultation hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Purdon			

EN3216 Modern Experimental Poetry				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm - 5.00 pm Thu			
<p>The module examines some of the most innovative and provocative poets of the postwar period. The aims are to attain a sense of the most significant poetic movements of the postwar period; to examine the prevalence and value of transatlantic poetic exchange; to observe how large and complex aesthetic developments can be detected in the specifics of individual oeuvres and friendships; to relate the acts of poetic composition and critical reception to relevant broader questions of a historical, philosophical or political nature; to develop the skills of very close reading the texts we will discuss demand, while becoming attuned to the historical development of different reading practices. We will be looking to establish points of continuity or disagreement between poets as the idea of formal 'experimentalism' or 'innovation' or 'otherness' alters according to time and place. The module will help students approach literature confidently as critics.</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Hazzard			
Module teaching staff:	Dr O Hazzard			

English - Honours Level - 2017/8 - August 2017

EN3217 Writing Poetry			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	9.00 am - 11.00 am Wed		
<p>This module allows students to explore some of the most common techniques, forms and modes of poetry and to develop their own practice as poets. The first half of the semester will focus on aspects of prosody such as meter and rhythm, rhyme and form, image and metaphor, allowing students to reimagine these practices from the point of view of the writing, rather than the analysis, of poetry. The second half of the module will concentrate on some of the main genres of poetry, such as lyric and elegy, with students encouraged to experiment with their own versions or anti-versions of these modes. The first hour each week will be spent discussing an aspect of poetry, with reference to the work of one or two poets, while the second hour will be spent workshopping students' poems.</p>			
Programme module type:	Group E Optional for English		
Pre-requisite(s):	EN2003, EN2004		
Anti-requisite(s):	EN4417, EN4420, EN4500		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 2 optional consultative hours.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr E Jones		
Module teaching staff:	Dr E Jones		

EN4315 Apocalyptic Literature in Early English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am and 10.00 am Thu			
<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, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C S Jones			
Module teaching staff:	Dr C S Jones			

EN4342 Restoration Drama in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Mon			
<p>This module focuses on dramatic literature from the period c. 1660-1710 while aiming to study dramatic art in relation to its literary and historical contexts. We will read approximately half a dozen plays in different genres alongside the poetry of John Dryden, the Earl of Rochester, Aphra Behn, and others, and in conversation with Restoration historiography. We will also touch on the material conditions of Restoration theatre: playhouses and stages, players and performances, patronage and economics. (Group B)</p>				
Programme module type:	Group B Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 20 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: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M C Augustine			
Module teaching staff:	Dr M C Augustine			

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EN4345 Hard Cases: Literary Complexity from Donne to Pope				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Mon			
<p>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)</p>				
Programme module type:	Group B Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M C Augustine			
Module teaching staff:	Dr M C Augustine			

EN4346 The Early Tudors: Literature and Reformation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A L Davis			
Module teaching staff:	Dr A L Davis			

EN4348 Bodies and Selves in the Renaissance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon - 2.00 pm Thu			
<p>The aim of this module is to place the relationship between the body, the self and the book at the heart of our understanding of Renaissance literature. From the body as a site for systems of ritual punishment, to dissection as a model for selfhood, different forms of corporeality will be explored as literary tropes. Primary texts will be examined alongside a diverse range of historical material, including anatomy textbooks and philosophical works, in order to contextualise theories of embodiment and selfhood. Looking at a range of texts by writers including Shakespeare, Donne, Montaigne, Webster, Marlowe, Amelia Lanyer, Jonson and Spenser, Bodies and Selves will examine how bodily systems shape textual forms. Students should be prepared for an intense programme of primary and secondary reading and for heavily discussion-based seminars. Assessment will be by a progression of essays; there is no exam. (Group B)</p>				
Programme module type:	Group B Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 20 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Pertile			
Module teaching staff:	Dr G Pertile			

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EN4361 The Novels of Jane Austen in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Garner			
Module teaching staff:	Dr K Garner			

EN4365 Literature and Childhood in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Wed			
<p>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)</p>				
Programme module type:	Group C Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S C Manly			
Module teaching staff:	Dr S C Manly			

EN4367 Romantic Gothic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Mon and 11.00 am Mon			
<p>This module examines the dark side of British Romanticism. Ghosts, reanimated bodies, monsters, fragmented manuscripts and haunted spaces fill the works of Romantic poets and novelists alike. The Romantics' fascination with the Gothic will be placed in the context of anxieties about the French Revolution, religion, sexuality, race and nation, as well developments in late eighteenth-century print and book production: the module includes a scheduled visit to Martyrs Kirk Library to view a selection of Gothic rare books. Students will also study eighteenth-century theoretical debates about terror and horror and engage with critical issues that have long occupied modern critics of the genre, such as the contested categories of Male and Female Gothic. (Group C)</p>				
Programme module type:	Group C Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Garner			
Module teaching staff:	Dr K Garner			

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EN4398 Short Dissertation			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Availability restrictions:	Available only to students also doing ID4002. Places on ID4002 will be limited and entry will be competitive. Only those applicants who are successful in being admitted to the placement module will be participants in this module.		
Planned timetable:	9.00 am Tue		
This module complements ID4002 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This module provides the opportunity for students to carry out an extended piece of work (in the form of a short dissertation) on a topic related to their work in ID4002. For example, the topic could have a pedagogical focus, exploring the place of English in education, or it could be a more detailed exploration of a subject related to the student's work in ID4002.			
Programme module type:	Optional for English		
Pre-requisite(s):	EN2003, EN2004		
Co-requisite(s):	ID4002		
Learning and teaching methods and delivery:	Weekly contact: 3 hours of classes over the semester, plus consultation hours.		
	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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr C Rauer		
Module teaching staff:	Dr C Rauer		

EN4399 Dissertation in English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Tue			
<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 BA (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: 5 hours per semester + 1 consultation hour weekly.			
	Scheduled learning: 5 hours		Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Purdon			
Module teaching staff:	Team taught			

EN4402 Speeches and Speechwriting: History, Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	3.00 pm Tue and 2.00 pm Fri			
<p>An introduction to speechwriting, involving a survey of the historical tradition of eloquence as an educational, political, and literary tool, with analysis and practice of rhetorical figures and strategies. Rooted in close reading of speeches from the Renaissance to the present day, the module examines: Classical models and tropes; the values and practices of Renaissance speechmaking; the rise and fall of 'rhetoric' in the 18th and 19th centuries; and the politics of gender, race, and class in contemporary speechmaking styles. Students will write and deliver their own speeches on a set topic as part of the module. (Group E)</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, seminars and practical classes, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S J Lodge			
Module teaching staff:	Dr S J Lodge			

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EN4403 Mediaevalism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm and 4.00 pm Tue			
This module considers literary efforts to continue, revive or adapt the Mediaeval by reference to a range of texts from Spenser to Tolkien. Areas of study will include The Faerie Queene; Eighteenth-century Gothick; Scott and the Romantics; the Pre-Raphaelites; the Arts and Crafts Movement and its modern followers. Much of the base material can be found in the Norton Anthology of English Literature, to be supplemented by other literary texts and ancillary material from religion, art and architecture. (Group E)				
Programme module type:	Group E optional module for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar/lecture, 1 tutorial/seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Jones			
Module teaching staff:	Dr C Jones			

EN4405 Contemporary Poetry in Great Britain and Ireland				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm - 5.00 pm Tue			
This module provides an introduction to contemporary English-language poetry written in Great Britain and Ireland; examines some of its important forebears; and gives an overview of the present state of the art in the constituent nations of the United Kingdom and in the Republic of Ireland.(Group E)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

EN4406 Contemporary British Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Purdon			
Module teaching staff:	Dr J Purdon			

EN4415 T.S. Eliot				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr B Carver			
Module teaching staff:	Dr B Carver			

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EN4417 Writing Poetry and Prose				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	3.00 pm - 5.00 pm Thu			
This module offers instruction in creative writing through both reading and composition. Students will learn to analyse the effectiveness of literary forms critically, and assessment will include submissions of original creative work. (Group E)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Anti-requisite(s):	EN4420, EN4500, EN3217			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Hazzard			
Module teaching staff:	Dr O Hazzard			

EN4418 American Poetry since 1950				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J P Burnside			
Module teaching staff:	Prof J P Burnside			

EN4419 American Fiction: Self and Nation (1865 - 1939)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Fri			
This module provides an introduction to American fiction published between the end of the Civil War and the start of the Second World War. The module encourages students to evaluate the relationship between historical events (including Reconstruction, the 'Jazz Age', the Depression) and American literary movements and genres including the romance, the realist novel, the 'lost generation', the Harlem Renaissance and Southern Gothic. The module is centrally concerned with the conception and representation of American identity in fiction, and with heterogeneous definitions of 'the American novel'. These topics are considered in relation to the historical, social and geographical contexts of ten set texts. (Group E)				
Programme module type:	Group E Optional for English, section I for BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J D Byatt			
Module teaching staff:	Dr J D Byatt			

EN4420 Writing Prose				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Wed and 11.00 am Wed			
EN4420 offers instruction in creative writing through both reading and composition. Students will learn to analyse the effectiveness of literary forms critically, and assessment will include submissions of original creative work. (Group E)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Anti-requisite(s):	EN3217, EN4417, EN4500			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 workshop, and 2 optional consultative hours.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms L Glaister			
Module teaching staff:				

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EN4422 Poetic Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Tue, 12.00 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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 3 weekly hours in Weeks 1-7; a one-off 30 min. discussion at some point in Weeks 8-11, plus compulsory attendance at a symposium (ca. 2.5 hours).			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T Jones			
Module teaching staff:	Dr T Jones			

EN4423 Material Culture in Victorian and Modernist Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Fri			
<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 C Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Alt			
Module teaching staff:	Dr C Alt			

EN4424 Nationalists and Nomads: Contemporary World Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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, nationalist struggles in India and Africa, state oppression and dictatorships in the New World, to globalisation and cosmopolitanism, this module 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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L M Burns			
Module teaching staff:	Dr L M Burns			

English - Honours Level - 2017/8 - August 2017

EN4425 Celtic Modernisms				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Tue			
<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			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P MacKay			
Module teaching staff:	Dr P MacKay			

EN4426 Civil Wars on Page and Screen				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Mon, plus film viewing 2.00 pm - 5.00 pm Fri			
<p>In this module we shall be looking at literary and cinematic representations of a number of different instances of civil war from the twentieth and twenty-first centuries. In the process, we will focus on issues such as gender, race, class, family and nationhood, politics of memory and commemoration, and the aesthetics of representing violence. We will examine the politics of definition of civil wars and think about civil wars as a consequence of colonialism and post-colonial nation-building. Questions we will be addressing include: What are the specific issues that are associated with civil wars?</p> <p>Is there a particular kind of literature that comes out of civil wars? What role does literature play in our perceptions of civil wars? How might it help or hinder post-civil war reconciliation? What are the differences between literature of different genres, and between literature and cinema, when it comes to representing civil wars?</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour class and 2 optional consultative hours, and 3 optional hours of film 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: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Raychaudhuri			
Module teaching staff:	Dr A Raychaudhuri			

EN4430 Making Performance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Fri			
<p>The twentieth and twenty-first centuries have seen a broad range of radical approaches to the task of making performance. This module will explore a range of these approaches, which may include physical theatre, theatres of cruelty, puppetry and mask, psychophysical performance and situationism. Through practical workshops, students will explore the intersections of theory and practice, developing their skills as both researchers and makers of performance. (Group E)</p> <p>Note: As this is not an acting course, students will not be graded on their performing abilities, but on their understanding of performance techniques.</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2-hour practical classes, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	New Coursework = 100%			
Module coordinator:	Dr S Haddow			
Module teaching staff:	Dr S Haddow			

EN4432 Poetry and Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue, and film viewing 2.00 pm - 4.00 pm Fri (some weeks)			
<p>This module examines the relationship between poetry and cinema in the last century. Film is often treated as a narrative art, yet to a number of writers and filmmakers it is poetry, and not the novel, that is cinema's closest literary relative. This module considers tendencies and techniques common to both poetry and cinema, as well as key moments of cross-fertilisation between them in movements such as Surrealism and Modernism and through the development of the 'film-poem'. The role of 'the poet' as a subject of cinema and analogous treatments of the cinema as a subject for poetry will also be discussed. In exploring the concept of a 'poetry of cinema' we will pay close attention to the different ways these terms signify over time, the different uses to which they are put, and to contrasting methods and visions in the various movements, periods, and works under discussion, as we chart the relationship between this most ancient and this most modern of arts.</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Jones			

English - Honours Level - 2017/8 - August 2017

EN4500 Playwriting				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am Wed and 12.00 noon Wed			
<p>Contemporary playwriting is flourishing in Britain, and this module will use the best examples of modern classic plays to unearth technique and skills that the students will then be asked to apply. The module aims to enable students to write for the theatre, to have an awareness of the creative process and to shape narrative into a scene or scenes. It is intended as an introduction to playwriting, and the expectation is that students will have little or no previous experience of playwriting, although a keen interest and enthusiasm for theatre is essential. The classes will combine an academic and a practical approach to developing writing: as well as formally studying the published works of established playwrights, we will also workshop the students' texts, and approach some exercises through improvisation. The module will also ask students to consider and evolve their view on the role of the playwright at a society level, and the cultural and political impact of a new play. (Group E)</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Anti-requisite(s):	EN3217, EN4417, EN4420			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mr O Emanuel and MS Z Harris			
Module teaching staff:	Mr O Emanuel and Ms Z Harris			

EN4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	9.00 am Tue			
<p>The dissertation must consist of approximately 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint or Triple Honours in the School of English			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

School of Geography & Sustainable Development

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Geography (GG) modules

GG3100 Reconstructing Past Environments				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available every year.			
Planned timetable:	11.00 am - 1.00 pm Wed			
<p>This module focuses on how we can use many strands of evidence to reconstruct past environments. Focusing on the period since the end of the last Ice Age (approximately the last 20,000 years), we discuss topics such as post-glacial sea level change, Holocene vegetation development and the prehistoric 'wildwood', and the changing nature of human impacts on the environment right up to the present day. The module includes field excursions and laboratory classes where you will learn to read the record of change locked up in peats, sediments and other environmental materials. Assessment includes a broad mixture of group and individual coursework, focused on using primary observations to understand how our world has changed over time.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 4 weeks) , 2-hour seminar (x 5 weeks), 2-hour practical classes (x 3 weeks), 4-hours fieldwork (x 3 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework (including 30% Lab/fieldwork) = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr K Roucoux			
Module teaching staff:	Various			

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GG3201 Single Honours Research Design and Methodology Training (60)			
SCOTCAT Credits:	60	SCQF Level 9	Semester: 2
Academic year:	2017/8		
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 research dissertation and develops transferable professional skills useful beyond graduation. Students learn about research design and the collection of original empirical data through engagement with a series of problem-based issues in geography and sustainable development. Themes covered include: training in quantitative, qualitative, and physical research methods; ethics of research; statistical techniques; cartography; and GIS (Geographical Information Systems). 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.</p>			
Programme module type:	Compulsory core for Single Honours Geography		
Pre-requisite(s):	Passes at with an average of 11 or better in GG2011 and GG2012		
Anti-requisite(s):	GG3202 - GG3204, SG3201 - SG3204		
Learning and teaching methods and delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours of classroom time (x 11 weeks), and a 1-week (40 hour) field class		
	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%		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr R Streeter		
Module teaching staff:	Team taught		

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GG3202 Joint Honours Research Design and Methodology Training (30)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module occupies a central place in our field-based research-orientated degrees. It prepares students to undertake their independent research dissertation and develops transferable professional skills useful beyond graduation. 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. Students need to make an informed choice, with the help of their Advisor, to select from the units shared with the larger 60-credit SG3201. The module concludes with students producing an independent research proposal for their Senior Honours dissertation research.</p>				
Programme module type:	Compulsory core for Joint Honours Geography One of GG3202 or GG3203 is compulsory for Geography with Persian, Geography with Social Anthropology, Geography with Spanish			
Pre-requisite(s):	Passes at with an average of 11 or better in GG2011 and GG2012	Anti-requisite(s):	GG3201, GG3203, SG3201 - SG3204	
Required for:	GG4221, GG4222, GG4223, GG4224, GG4225, GG4297, GG4301			
Learning and teaching methods and delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours (x 7.5 weeks).			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R Streeter			
Module teaching staff:	Team taught			

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GG3203 Research Design and Methodology Training (50)			
SCOTCAT Credits:	50	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Not available to General Degree Students.		
Planned timetable:	To be arranged.		
<p>This module occupies a central place in our field-based research-orientated degrees. It prepares students to undertake their independent research dissertation and develops transferable professional skills useful beyond graduation. 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. Students need to make an informed choice, with the help of their Advisor, to select from the units shared with the larger 60-credit SG3201. The module concludes with students producing an independent research proposal for their Senior Honours dissertation research.</p>			
Programme module type:	One of GG3202 or GG3203 is compulsory for Geography with Persian, Geography with Social Anthropology, Geography with Spanish		
Pre-requisite(s):	Passes with an average of 11 or better in GG2011 and GG2012	Anti-requisite(s):	GG3201, GG3202, SG3201 - SG3204, SD3203
Required for:	GG4221, GG4222, GG4223, GG4224, GG4225, GG4298, GG4301		
Learning and teaching methods and delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours (x 8.5 weeks), and a 1-week (40 hour) field class.		
	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%		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr R Streeter		
Module teaching staff:	Team taught		

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GG3204 Research Design and Methodology Training (40)				
SCOTCAT Credits:	40	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	To be arranged.			
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 then leads onto the rigorous analysis of data in Senior Honours. It includes a research-based residential fieldclass organised around the design and implementation of a specific research project. The module provides fundamental training for the independent Senior Honours dissertation project.				
Programme module type:	One of GG3201 - GG3204 is compulsory (Core) for Geography			
Pre-requisite(s):	Passes with an average of 11 or better in GG2011 and GG2012			
Anti-requisite(s):	GG3201 - GG3203, SG3201 - SG3204, SD3204			
Learning and teaching methods and delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours (x 8 weeks) plus a fieldclass.			
	Scheduled learning: 104 hours		Guided independent study: 296 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R Streeter			
Module teaching staff:	Team taught			

GG3221 Geographies of Identity and Power				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	2.00 pm - 4.00 pm Fri			
Drawing on theories of gender and sexuality, this module charts how political questions about identity and power have become central to a broad range of contemporary issues. This module introduces key concepts in the theorisation of gender and sexuality, contextualises their development in the social sciences more generally, and applies them to a range of contemporary geographic issues including: power, segregation, inequality, representation and the political.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 10 weeks) and 1 x 2-hour revision session.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M B Sothern			
Module teaching staff:	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:	2017/8			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	9.00 am - 11.00 am Wed			
<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			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 8 weeks) , 1-hour seminar (x 8 weeks), 2-hour practical classes (x 2 weeks) and 1 x 2-hour feedback/revision session.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M G Kesby			
Module teaching staff:	Dr M G Kesby			

GG3227 Colonial and Postcolonial Geographies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	9.00 am - 11.00 am Mon			
<p>This module traces the historical geography of modern colonialism from its sixteenth-century beginnings in Spain's discovery and conquest of the New World, through to the break-up of European colonial empires after World War II, and up to what has been called 'the colonial present' and the 'new imperialism' (revolving around the USA and the 'war on terror'). Emphasis will be placed on how colonialism, past and present, operates as a logic of displacement and dispossession, and as both a conceptual space (imaginative geography) and physical space (material geography) of encounter and conflict and resistance involving a wide array of projects of colonisation and resistance.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar (x 10 weeks) + 2 x 1-hour feedback/revision sessions			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr D W Clayton			
Module teaching staff:	Dr D W Clayton			

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GG3229 Environmental Management in Scotland				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	9.00 am - 11.00 am Tue			
<p>This module explores current environmental management issues in Scotland. It discusses the primary sectors of land & resource management (e.g. forestry, agriculture, wildlife management, freshwater resource management, conservation, renewable energy), and explores how these systems interact. The aim is to leave students with an informed conceptual and empirical framework for evaluating management proposals and their implications for environmental, economic and social change. A particular focus, employing topical case studies and a field visit, is the conflicts that arise as interest groups with contrasting philosophies & value systems compete to shape the future of Scotland's natural heritage within a devolved political framework and in the context of climate change.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Anti-requisite(s):	SG3229			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 10 weeks) + 2 x 1-hour feedback/revision sessions and a 1-day (8 hour) field excursion.			
	Scheduled learning: 30 hours		Guided independent study: 170 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%, Practical Examination = 20%, Coursework = 20%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C R Warren			
Module teaching staff:	Dr C R Warren			

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GG3232 Housing, Community and Social-Spatial Justice				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	11.00 am - 1.00 pm Tue			
This interdisciplinary module brings a Housing Studies perspective to the study of Urban Social Geography. Social geography is a sub-discipline that is interested in social relations and social difference. It has an analytical focus on the forms of power that lead to social and spatial inequality. Through engaging with contemporary policy and political debates about poverty and place, urban marginality and social-spatial (in)justice, this module emphasises the way in which geographical knowledge can be usefully applied to contemporary urban social 'problems'. In doing so, it also highlights how communities themselves have been active in leading place-based solutions to build better places.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar (x 10 weeks) + 2 x 1-hour revision sessions			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr K McKee			
Module teaching staff:	Dr K McKee			

GG3234 Migration and Transnationalism				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	2.00 pm - 4.00 pm Fri			
This module is designed to advance students' appreciation of the chief academic arguments associated with migration and transnationalism. Geographical analysis of the changing role of labour migration in the world economy offers a distinctive perspective on this spatially, socially and economically selective process. Other new mobilities, such as the very significant increase in international student mobility, illustrate the complex ways in which globalisation interfaces with the efforts of individuals, families and communities to add to their social and cultural capital. Although dominantly concerned with international mobility, other scales of analysis will also be considered (e.g. the body). Finally, the course briefly covers issues associated with immigration, refugee and asylum policies.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 hour lecture and 1 hour seminar (x 10 weeks) + 2 x 1-hour essay feedback and exam revision sessions.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr D McCollum			
Module teaching staff:	Dr D McCollum			

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GG3237 Political and Cultural Geographies of the Border				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	11.00 am - 1.00 pm Tue			
<p>This module focuses on a critical analysis and empirical reflection on the border and its functions, to better appreciate borders' paradoxical cultural and political roles. It will provide a framework for understanding contemporary bordering practices, their role in processes of identity-building and the constitution of belonging and difference within the fields of political and cultural geography. It will provide an introduction to the multi-disciplinary arenas of border studies, critical geopolitics, and biopolitics. An understanding of the over-arching power of discourse will be central to this course; the examples used will provide students with a deeper appreciation of how discourses work in the transmission of knowledge and the legitimisation of action. This module will challenge students to think about the complex functions of the border and their deeply political nature.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks) 1 x 1-hour seminar (x 10 weeks) 2 hours feedback and additional exam prep sessions			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 1-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Dr S Leahy			

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GG3238 Development: voice, power and identity in global times				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	11.00 am - 1.00 pm Mon			
<p>This module focuses on how contemporary international development is changing. It examines how different development actors gain a voice and political prominence in contemporary development debates and policy making. While national governments, international donors and Non Government Organisations (NGOs) continue to influence development agendas, the global context for development is altering. The current moment is marked by shifting geopolitics and hyper mobility giving rise to new development agendas such as securitisation, religion and identity as well as a greater focus in global popular culture on individuals 'making a difference'. These changes create new opportunities for different actors to influence development. We will examine whether these groups and individuals 'do development differently' and ask who is excluded. Students will understand how they shape spaces locally, nationally and transnationally and will assess if this represents an alternative form of development.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture (x 11 weeks), 1 hour seminar/workshop (x 11 weeks)			
	Scheduled learning: 33 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof N Laurie			
Module teaching staff:	Prof N Laurie			

GG3239 European Population Trends				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Mon			
<p>This module focuses on long-term European population trends. The fertility, mortality and migration dynamics of a representative cross-section of European countries are examined and competing explanations for demographic changes are discussed. The specific challenges that current population changes pose to public policy are also discussed.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 2 hour lecture (x 11 weeks). 4 tutorials (x 4 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 176 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof H Kulu			
Module teaching staff:	Prof H Kulu			

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GG3240 Ice and climate				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	9.00 am - 11.00 am Mon			
<p>The growth and decay of the Earth's glaciers and ice sheets is one of the most dramatic consequences of climatic variability. Over the course of the Quaternary period (2.6 Ma ago to the present), vast ice sheets have regularly expanded to cover much of Europe and North America before rapidly wasting away in just a few thousand years. Understanding the causes and effects of these past changes is of great importance at present as anthropogenic climate change pushes the Earth into a new phase of major deglaciation. This module will begin by looking at the evidence for past glaciation and its influence on landscape development and modern land use. It will then look at what these past glacial periods can tell us about the threat to present day glaciers and ice sheets, including the likely rate and magnitude of deglaciation, the key mechanisms and feedbacks controlling these changes, and the critical interactions between the Earth's ice, oceans and climate.</p>				
Programme module type:	Optional for Geography			
Pre-requisite(s):	Entry to honours programme in Geography or Sustainable Development			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 1-hour seminar (x 9 weeks), 1 x 2-hour practical (x 2 weeks), 1 x 1-day field trip			
	Scheduled learning: 34 hours		Guided independent study: 166 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr T Cowton			
Module teaching staff:	Dr T Cowton			

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GG3241 Quaternary Palaeoecology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Availability restrictions:	Offered on a two year cycle		
Planned timetable:	11.00 am - 1.00 pm Tue		
<p>This module examines the behaviour of organisms in response to climate changes on timescales of millenia and longer. Possible responses can be categorised as (i) evolution (by lineage splitting, or speciation, the source of biological diversity), (ii) extinction, or (iii) changes in distribution and abundance. The relative importance of these responses, and their relative frequency, are crucial for understanding the origin of biological diversity, its regionalisation (biogeography), and as a foundation for how organisms will respond with climate change in the future. The module will show the development of ideas in these areas, from the early nineteenth century onwards, through to current understanding, including recent developments in geography, Earth sciences and biology.</p>			
Programme module type:	Optional for Single Honours Geography or Biology and Geography Joint Honours		
Pre-requisite(s):	GG2011 and GG2012 (or SD2001 and SD2002 with permission of module coordinator)		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.		
	Scheduled learning: 30 hours	Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000-word essay on a subject to be decided between the student and the module co-ordinator = 100%		
Module coordinator:	Prof K Bennett		
Module teaching staff:	Prof K Bennett		

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GG3262 Climate and Weather Systems				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	11.00 am - 1.00 pm Tue			
Weather affects every aspect of life, and is a fundamental control on many environmental systems. This module explores the workings of the atmosphere at a wide range of scales, from the formation of clouds and raindrops, through thunderstorms and cyclones, up to large-scale circulation of the atmosphere. Beginning from first principles, key physical processes are introduced and used to develop a deep understanding of the earth's weather and climate. The module concludes with a critical examination of the climate change debate.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 2 hours lectures and 2 hours seminars (x 5 weeks) + 2 x 1-hour essay feedback and exam revision sessions			
	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: Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D I Benn			
Module teaching staff:	Prof D I Benn			

GG3263 Glaciers and Glaciation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	9.00 am - 11.00 am Wed			
In recent years, concern has risen about the impact of climate change on glaciers and ice sheets, and the implications for sea level rise, natural hazards and water resources. This course critically evaluates these issues, and explores the fundamental glaciological processes required to understand them. The first part of the course focuses on how glaciers function and interact with climate, and covers glacier mass balance (snowfall and ice melt), hydrology, processes of glacier motion and ice dynamics. The second part then applies these principles to important issues, such as glacier lake outburst floods, water resources in glacier-fed river basins, the future of the Antarctic and Greenland Ice Sheets, and sea level change.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar (x 11 weeks) + 1 x 1-hour revision session + 1 residential (two-day – 16 hours) field course during the semester.			
	Scheduled learning: 37 hours		Guided independent study: 163 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D I Benn			
Module teaching staff:	Prof D I Benn			

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GG3264 Oceans and Climate				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	9.00 am - 11.00 am Thu			
The oceans play a key role in the global climate system. The aim of this module is to foster an understanding of: (1) changes in ocean circulation and climate, the possible mechanisms for such changes and the wider implications in terms of past, present and future global and regional climates; and (2) to provide an introduction to some of the research methods employed to determine oceanographic changes.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar (x 11 weeks) + 1 x 1-hour revision session during the semester.			
	Scheduled learning: 23 hours		Guided independent study: 177 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof W E N Austin			
Module teaching staff:	Prof W E N Austin			

GG3271 Coastal Processes				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	11.00 am - 1.00 pm Tue			
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. 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.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof W E N Austin			
Module teaching staff:	Prof W E N Austin			

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GG3272 Biogeography				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	11.00 am - 1.00 pm Mon			
<p>Biogeography is the study of the geographical distribution of organisms, and it is at the heart of our understanding of Earth system function. Controlled by numerous interacting physical and biological factors operating on a wide range of temporal and spatial scales, biogeography is critical to understanding past, present and future trajectories of ecosystem change. In this module we will study some of the many active and fascinating debates in the field of biogeography including the application of fundamental biogeographical principles to current conservation policy. Teaching is through a combination of lectures, seminars and workshops, plus one half-day field excursion.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture, (X 10 weeks), 1-hour seminar (x 6 weeks) 2-hour workshops (x 4 weeks) and 6 hours of fieldwork			
	Scheduled learning: 30 hours		Guided independent study: 170 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%			
Re-assessment pattern:	<p>Students will have to resit the failed component(s) in order to obtain a capped mark of 7 for the module as a whole, completing one or more of the following:</p> <ul style="list-style-type: none"> - A 1500 word report, following the format of Assessment 1, using a different, secondary dataset (30%) - A 1500 word guide to the biogeography of a selected region (i.e. a different region to the first attempt; 30%) - A two-hour written exam (40%). 			
Module coordinator:	Dr I Lawson			
Module teaching staff:	Dr I Lawson, Dr K Roucoux			

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GG3273 Scrutinising Segregation: Geographies of Diversity and Inequality			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2018/9		
Availability restrictions:	Offered on a two year cycle		
Planned timetable:	11.00 am - 1.00 pm Wed		
<p>Is Britain residentially segregated? How do we know this? What social and population processes shape segregation? Along what lines (race, religion, class) is segregation considered? Why does segregation matter? How has the question of the patterning of where people live become connected to international relations and national security?</p> <p>Through consideration of these questions we will think critically about diversity and inequality, and how these salient social themes have been thought about academically and politically. We will examine the evidence on segregation and how this has been appropriated and misappropriated, and we will discover what Geographers can contribute, conceptually and methodologically, to these debates.</p>			
Programme module type:	Optional for all degrees involving Geography or Sustainable Development		
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour seminar (x 11 weeks), 1 x 1-hour lecture (x 11 weeks)		
	Scheduled learning: 22 hours	Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr N Finney		
Module teaching staff:	Dr N Finney		

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GG3274 Socio-ecological Systems				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	9.00 am - 11.00 am Tue			
<p>This module examines how we can use records of the past to understand human-environment interactions over the timescales on which climate change plays out. It will present key concepts and theories for understanding the complex dynamics of socio-ecological systems, and illustrate how careful consideration of palaeoenvironmental, archaeological and historical data can be used to understand how past societies coped with climatic stresses and managed finite resources. We also consider how knowledge of the past can inform current and future thinking about social resilience and conservation management. The module uses case studies from the Old and New Worlds, including North Atlantic, Pacific Islands, and the African savanna.</p>				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	(GG2011 and GG2012) or (SD2001 and SD2002)			
Anti-requisite(s):	SG3272			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 10 weeks), 1-hour seminar (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Davies			
Module teaching staff:	Dr A Davies and Dr R Streeter			

GG3301 Special Topic for Joint or Major Honours in Geography (Junior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Joint Honours Geography and all 'Geography with' degrees			
Pre-requisite(s):	GG2011 and GG2012			
Learning and teaching methods and delivery:	Weekly contact: Students undertake the lecture/seminar contact hours associated with any 3000-level GG, SG or SD coded option module, but do a separate assessment (4000-word essay). Weekly contact hours vary (with the option module taken), but the average scheduled learning across the range of modules available is 23 hours.			
	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%			
Re-assessment pattern:	Coursework Essay = 100%			
Module coordinator:	Dr R Streeter			
Module teaching staff:	Various			

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GG3302 Special Topic for Honours in Geography (Senior Honours)			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Entry to a Joint or Major Honours programme in 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.		
Pre-requisite(s):	GG2011 and GG2012		
Required for:	Single Honours Geography students also taking ID4001 or ID4002		
Learning and teaching methods and delivery:	Weekly contact: Students undertake the lecture/seminar contact hours associated with any 3000-level GG, SG or SD coded option module, but do a separate assessment (4000-word essay). Weekly contact hours vary (with the option module taken), but the average scheduled learning across the range of modules available is 23 hours.		
	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%		
Re-assessment pattern:	Coursework Essay = 100%		
Module coordinator:	Dr R Streeter		
Module teaching staff:	Various		

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GG4201 Advanced Debates in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Core - available every year.			
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:	Compulsory core for Single Honours Geography Optional for all 'Geography with' degrees			
Pre-requisite(s):	1 of SG3201 - SG3204			
Learning and teaching methods and delivery:	Weekly contact: 6 x 2-hour seminars during the semester.			
	Scheduled learning: 12 hours		Guided independent study: 88 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

GG4297 Joint Honours Research Dissertation in Geography				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Core - available every year.			
Planned timetable:	To be arranged.			
<p>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/).</p>				
Programme module type:	Compulsory for Joint Honours Geography			
Pre-requisite(s):	GG3202, SG3202		Anti-requisite(s):	GG4298
Learning and teaching methods and delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor)			
	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%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

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GG4298 Research Dissertation in Geography				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Core - available every year.			
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 as an oral presentation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory core for Single Honours Geography, all 'Geography with' degrees			
Pre-requisite(s):	SG3201 or SG3203	Anti-requisite(s):	GG4297	
Learning and teaching methods and delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor), plus a 1 day (8-hour) conference			
	Scheduled learning: 16 hours		Guided independent study: 490 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation and Conference presentation = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

GG4301 Advanced Study for Joint or Major Honours in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography			
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 SG3202 or SG3203			
Learning and teaching methods and delivery:	Weekly contact: Students undertake the lecture/seminar contact hours associated with any 3000-level GG, SG or SD coded option module, but do a separate assessment (4000-word essay). Weekly contact hours vary (with the option module taken), but the average scheduled learning across the range of modules available is 23 hours.			
	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%			
Re-assessment pattern:	Coursework Essay = 100%			
Module coordinator:	Dr R Streeter			
Module teaching staff:	Various			

Sustainable Development (SD) modules

SD3100 Methodologies for Sustainable Development			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	To be arranged.		
<p>This module prepares students to undertake final year dissertation research. This module builds on the research methods explored in other SD honours modules. Students will learn about how to design and execute a research project, how to situate research questions in the broader agenda of Sustainable Development and within appropriate interdisciplinary literatures. A group research project provides the opportunity to apply this learning in a fieldwork setting. Students taking this module will understand the wider epistemological debates surrounding interdisciplinary, know how to define problems and form tractable research questions as well as how to design rigorous methodologies to answer these questions. By the end of the module each student will have developed a research proposal suitable for a final year dissertation project.</p>			
Programme module type:	Compulsory for Sustainable Development (BSc and MA)		
Pre-requisite(s):	SD2001 and SD2002 and at least 30 credits of SD at 3000 or 4000 level.		
Anti-requisite(s):	SG3201, SG3202, SG3203, SG3204, GG3201.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar (x 7 weeks); 1 x 3-hour practical (x 3 weeks); residential field work (x 3 days)		
	Scheduled learning: 57 hours	Guided independent study: 252 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr R White		
Module teaching staff:	Team taught		

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SD3110 Environmental Economics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Thu			
This module introduces students to the contributions that environmental economics can make to helping us understand and manage a wide range of environmental problems. We also study the insights which economics provides on the relationship between economic growth and environmental quality, and the measurement of sustainability. No prior knowledge of economics is presumed, and a course textbook is available which is co-written by one of the course lecturers.				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	usually SD2002	Anti-requisite(s):	SD3224	
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 10 weeks), 2-hour practicals (x 4 weeks)			
	Scheduled learning: 28 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: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Dr E McLaughlin, Prof N Hanley, Dr T Borger			

SD3111 Home & Energy Geographies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Thu			
An abundant and uninterrupted supply of energy underpins all of our everyday activities; it is fundamental to the quality of our lives. This module will explore the history of our energy use and how it is implicated in modern life. It will do this by exploring why we need energy, the nature of energy demand (e.g. we use more energy than ever before, and our energy demand is predicted to double by the year 2050), and the interconnectedness of energy and sustainability. This module will predominantly focus on domestic energy use (and therefore discuss notions of home, dwelling and domesticity), but will also link to international debates about energy and sustainability. Throughout the module, theories of social and technological change will be explored as a means to understanding transitions in energy demand.				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	(SD2001 and SD2002) OR (GG2011 and GG2012)	Anti-requisite(s):	SD3221	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 10 weeks)			
	Scheduled learning: 30 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: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L Reid			
Module teaching staff:	Dr L Reid			

Geography & Sustainable Development - Honours Level - 2017/8 - August 2017

SD4110 Transitioning to sustainability: community, nature and governance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	To be arranged.			
<p>A transition towards sustainability will be multifaceted, requiring novel forms of governance and acknowledging the roles and perspectives of different actors. State intervention alone will not suffice; local and grassroots initiatives and movements are critical. In this module we will explore how communities of place, interest, practice and value can contribute to multi-level governance for sustainability, but can also question dominant assumptions manifested at national or international levels. We will examine how community interacts with other sectors, explore learning, adaptation and resilience in communities and pursue the trend for alternative economies. We will draw on examples from the global north and south. In addition, we will critique the contested concept of community itself, acknowledging issues relating to heterogeneity, representation and relationality.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	SD2001 and SD2002	Anti-requisite(s):	SD3225	
Learning and teaching methods and delivery:	Weekly contact: 1 hour lecture (x11 weeks), 1 hour seminar (x11 weeks), 3 hour practical class (x2 weeks), 4hr field-trip (x6 weeks)			
	Scheduled learning: 57 hours		Guided independent study: 244 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr R White			
Module teaching staff:	Dr R White			

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SD4111 Governance for Sustainability			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2018/9		
Availability restrictions:	Offered on a two year cycle		
Planned timetable:	10.00 am - 1.00 pm Fri		
<p>Many of the important sustainability issues we face as a society are complex and multi-faceted. Building more sustainable solutions is likely to require collaboration between different actors at multiple scales. The effectiveness of institutional arrangements has become a key question within the sustainability paradigm. What principles of governance can we bring to bear in the design and reform of governance systems which will lead to more sustainable outcomes? This module will explore insights from planning, environmental geography, political science and other social science disciplines. Students will acquire practical knowledge of governance arrangements for sustainability, as well as critical skills to assess notions of 'Good' Governance. Students will also develop transferrable research skills for policy and institutional analysis.</p>			
Programme module type:	Optional for Sustainable Development		
Pre-requisite(s):	SD2001 and SD2002	Anti-requisite(s):	SD3222
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lectures (x 10 weeks), 2 x 2-hour seminars, 4 x 2-hour practicals		
	Scheduled learning: 35 hours	Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (presentation - 20%, report - 30%) = 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr T Stojanovic		
Module teaching staff:	Dr T Stojanovic		

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SD4112 Global Energy Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Fri			
<p>This module looks into the global context of energy challenges facing society today and tomorrow. It takes a look at each major type of energy system. The focus is on (1) fossil fuels, (2) low carbon energy sources and (3) modern Renewables and (4) energy consumption. You will reflect on how we can respond to the global energy quadrilemma - reducing carbon, affordable energy, energy security and energy justice. Students will understand how to assess the major political questions involved in each of these energy systems. You will also gain an understanding of the statistical realities that need to be overcome. The module will provide you with a detailed and thorough investigation of how sustainable energy systems can and should be constructed, as well as appreciating the political obstacles facing a sustainable pathway. The module will also develop methodological skills to construct and research energy scenarios for a NGO, business or government department.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	SD2001 and SD2002	Anti-requisite(s):	SD3222	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 11 weeks), 1 seminar (x 11 weeks), 1 workshop (x 4 weeks)			
	Scheduled learning: 41 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D McCauley			
Module teaching staff:	Dr D McCauley			

SD4113 Environment and Development Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	To be arranged.			
<p>The world has changed dramatically since the early 1700s, before the onset of modern economic growth and the industrial revolution. However, despite rapid advancements, the world today is divided between high-income, middle-income, and low-income countries. This module takes a broad perspective on economic development and how economic development interacts with the environment. The module introduces key concepts in economic development and natural resource management.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	passes in SD2001 and SD2002	Anti-requisite(s):	SD3224, SD5101	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks), 2 practicals (x 4 weeks)			
	Scheduled learning: 28 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: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Dr E McLaughlin, Prof N Hanley, Dr T Borger			

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SD4297 Dissertation in Sustainable Development			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Availability restrictions:	Available only to Sustainable Development Honours students.		
Planned timetable:	To be arranged.		
<p>This dissertation builds 3000-level research methods training and will demonstrate the importance of an interdisciplinary approach to key questions of sustainable development. This independent research will involve the review of relevant literatures, the application of rigorous methodologies, the collection of data as well as the appropriate analysis and interpretation of data. A final dissertation of not more than 10,000 words will comprise the primary mode of assessment but students will also participate in the Senior Honours Research Conference at which all students will present their work to members of the school. To support this learning students will be supervised by a member of staff and collective workshops on relevant skills such as oral presentation skills, approaches to scientific writing, and presenting data will also be offered. Students will also be invited to attend a dissertation away day at the beginning of the semester.</p>			
Programme module type:	Compulsory for Single Sustainable Development (BSc and MA Hons) Compulsory for Joint Honours Sustainable Development if dissertation or research project is not taken in the partner subject Optional for Joint Honours Sustainable Development if partner subject involves a dissertation or research project		
Pre-requisite(s):	SD3100 or SG3201 or SG3202 or SG3203 or SG3204	Anti-requisite(s):	SD4299
Learning and teaching methods and delivery:	Weekly contact: 1 away day (8 hours), 2-hour skills workshops (x4), up to 10 hours individual supervision, by arrangement with supervisor, student research conference (4 hours)		
	Scheduled learning: 30 hours	Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%		
	As used by St Andrews: Coursework (10,000-word dissertation = 95%, oral or poster presentation a student research conference = 5%) = 100%		
Re-assessment pattern:	10,000-word Dissertation = 100%		
Module coordinator:	Dr R White		
Module teaching staff:	Team taught		

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SD4299 Dissertation in Sustainable Development			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
Availability restrictions:	Core - Available only to students who intend an Honours Degree in Sustainable Development.		
Planned timetable:	To be arranged.		
<p>This module is largely based upon independent study. Students select a research question in Sustainable Development, mount a research programme to investigate the topic, and write a dissertation on the work. The topic is selected during the second semester of the junior honours year; data can be collected during the following vacation with data analysis and the writing of the dissertation taking place over both semesters of Senior Honours. Each student is supervised by a member of the teaching staff from an appropriate disciplinary area who will ensure that the topic chosen is viable and advise students on data collection and analysis. Students attend an introductory session at the start of semester 2, followed by a series of 'workshop' sessions covering aspects of research design and process during the semester. 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. 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 as an oral presentation.</p>			
Programme module type:	Compulsory for Sustainable Development		
Pre-requisite(s):	One of SG3201 - SG3204	Anti-requisite(s):	SD4002, SD4297
Learning and teaching methods and delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor), plus a 1 day (8-hour) conference		
	Scheduled learning: 16 hours	Guided independent study: 584 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%		
Re-assessment pattern:	Oral Examination = 100%		
Module coordinator:	Dr R White		
Module teaching staff:	Team taught		

Sustainable Geography (SG) modules

SG4221 Review Essay				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Core - available every year			
Planned timetable:	4.00 pm - 6.00 pm Thu			
This elective requires students, working independently, to identify and critically review a body of literature, giving an account of its substantive content, and critically assessing the evidence 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.				
Programme module type:	Optional elective for all degrees involving Geography			
Pre-requisite(s):	Passes in one of SG3201 - SG3204			
Learning and teaching methods and delivery:	Weekly contact: Introductory lecture and seminar (2 hours) followed by guided independent study (one-to-one supervision)			
	Scheduled learning: 2 hours		Guided independent study: 198 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Review Essay = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

SG4222 Advanced Qualitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Thu			
This module offers advanced training in methods of qualitative analysis that facilitate dissertation work and develop transferable skills for future careers. Learning is project/problem-based, and students 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 are drawn from a range of areas within geography and sustainable development. . Techniques, themes and materials will vary according to staff availability.				
Programme module type:	Optional elective for all degrees involving Geography			
Pre-requisite(s):	Passes in one of SG3201 - SG3204			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture (x 4 weeks), 2-hour seminar (x2 weeks), 2-hour practical (x3 weeks)			
	Scheduled learning: 18 hours		Guided independent study: 182 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework project = 100%			
Module coordinator:	Dr M Sothern			
Module teaching staff:	Team taught			

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SG4223 Advanced Quantitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	1.00 pm - 5.00 pm Tue			
<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 elective for all degrees involving Geography			
Pre-requisite(s):	Passes in one of SG3201 - SG3204			
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 = 13%, Coursework = 87%			
	As used by St Andrews: Practical Examination = 13%, Coursework = 87%			
Re-assessment pattern:	Coursework project = 100%			
Module coordinator:	Dr A Marshall			
Module teaching staff:	Team taught			

SG4224 Advanced Topics in Physical Sciences				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 5.00 pm Tue			
<p>This module introduces students to a range of advanced and cutting edge topics in Physical Geography and other physical sciences relevant to geography and sustainable development. Three topics are offered each year that build on material explored in 3000-level Honours modules, and which expand and deepen students' practical skill set. Students choose two of the three topics. Each topic includes 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. The module complements and expands the learning acquired in SG3201-SG3204, and provides additional resources for the development of students' individual dissertation projects.</p>				
Programme module type:	Optional elective for all degrees involving Geography			
Pre-requisite(s):	Passes in one of SG3201 - SG3204			
Learning and teaching methods and delivery:	Weekly contact: 2 hour lectures (x 9 weeks) and 1 x 1-day (4 hour) field class.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework project = 100%			
Module coordinator:	Dr R Streeter			
Module teaching staff:	Team taught			

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SG4228 Advanced Topics in Geographic Information Science (GISci)			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Availability restrictions:	Available every year.		
Planned timetable:	1.00 pm - 5.00 pm Mon		
<p>The first part of the module explores advanced GIS and spatial analysis techniques for use with geographic datasets. Students will gain theoretical and applied knowledge in order to study and describe spatial patterns in geographic data. Theoretical understanding will be emphasised through lectures and readings. Labs/practicals will be designed to provide students with hands-on experience applying theory and techniques to datasets spanning human and environmental geography using applications including crime, forestry, health, environmental change, and housing. Focus will be placed on methods for analysing spatial point patterns, spatial autocorrelation, and spatial modelling.</p> <p>In the second part, students will engage in a small research project of their choosing to showcase their new advanced GIS skills. The project will allow students to use GIS and spatial analysis techniques to address a chosen problem in either of the social, physical, or environmental sciences. Students with domain knowledge in human geography, physical geography, or sustainable development will be able to tailor GIS projects to their own applications.</p>			
Programme module type:	Optional elective for all degrees involving Geography		
Pre-requisite(s):	SG3201-4 Unit 2a OR Unit 3 AND SG3201-4 Unit 6		
Learning and teaching methods and delivery:	Weekly contact: 2 hours lectures (x 9 weeks), 2-hour practical classes (x 6 weeks), 2-hour IT Lab Help sessions (x 3 weeks)		
	Scheduled learning: 36 hours	Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework project = 100%		
Re-assessment pattern:			
Module coordinator:	Dr J Long		
Module teaching staff:	Dr J Long, Dr U Demsar		

School of History

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

History (HI) modules

HI4101 Communication in History			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
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: Fortnightly 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%		
Re-assessment pattern:	4,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)		
Module coordinator:	Dr S Tyre		

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HI4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>This module is designed to encourage the development of skills of historical analysis through the concentrated study of a topic agreed between the student and two appropriate members of staff in different disciplines and Schools (who act as supervisors). 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 (though it must break new ground and use substantially new research). The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation. The outcome is assessed on the quality of the library research and analysis shown in the written submission (an extended essay up to 8,000 words - 75%) and on the oral presentation of the findings to other students and two tutors (25%).</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 Joint or 'with' Honours in the School of History			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

HI4997 Recording the Past				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>With the consent of the module coordinator and of the Chair of the Degree Committee, candidates may submit a project in the form of a radio programme, video documentary, website or other appropriate medium. RECORDING THE PAST is designed to encourage the development of skills of historical analysis through concentrated study on a chosen topic and, in addition, the development of new skills of presentation through multimedia. Group projects are welcome, their volume being dependent on the numbers involved. Regardless of the medium used, the project outcome is assessed on the quality of the research and analysis (including oral interviews and photographic, film or sound sources) and on the technical quality of the final outcome. The project may build on work already done in another module, but it must break new ground and use substantially new research. While some training in multimedia techniques will be offered, the student should already possess some experience in the medium in which he/she chooses to present the project.</p>				
Programme module type:	HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or with permission HI4999 is compulsory for Modern History, Scottish History, and BA (Intl Hons) 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 = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)			
Module coordinator:	Prof G DeGroot			
Module teaching staff:	Prof G DeGroot			

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HI4998 Honours Project in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 takes the form of an extended essay (maximum 8,000 words) on a narrowly defined topic. 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 with permission HI4999 is compulsory for Modern History, Scottish History, and BA (Intl Hons) 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 = 25%, Coursework = 75%			
Re-assessment pattern:	As used by St Andrews:			
	Coursework = 100%			
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)			
Module coordinator:	Dr J Rose			

HI4999 Honours Dissertation in History			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
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, and BA (Intl Hons) 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, HI4998, ME4998, CL4999 or a dissertation in another subject		
Learning and teaching methods and delivery:	Weekly contact: •In week 12 of Semester 1, for a preliminary organisational meeting with confirmed supervisor. •In week 0 or 1 of Semester 2, to discuss the overall progress and plan of further work, and the dissertation plan and indicative bibliography (which must be submitted by Friday of week 2). •In an informal (but compulsory) presentation of the topic and progress so far, to a staff member and between two and four other students, in week 4. •To give detailed feedback on draft material (which must be submitted by Friday of week 5). •In up to three further meetings arranged at the student's request during the semester.		
	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%		
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)		
Module coordinator:	Dr C McGladdery		

Mediaeval History (ME) modules

ME3105 Archaeological Methods				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explains modern archaeological methods, introducing the techniques available to researchers for investigating archaeological sites. The module will demonstrate how successful projects combine a range of disciplines, including archival research, scientific analysis and the digital recording techniques. The module will use real examples from local sites in and around St Andrews, and will combine classroom learning and practical sessions. The aim is to make students familiar with techniques and methods that are applicable around the world. Students will learn how to plan and organise archaeological projects, preparing them to pose research questions and develop projects that employ the appropriate techniques.</p>				
Programme module type:	Compulsory for Mediaeval History & Archaeology degree Optional for Ancient History & Archaeology, History, Mediaeval History, BA (Intl Hons) History, Scottish History, BA (Intl Hons) Classics			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar (x 11 weeks), 1 practical class (x 6 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 275 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Mr T Dawson			
Module teaching staff:	Mr T Dawson, Miss J Humbly, Ms E Allsop			

ME3162 The Mediaeval Castle				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 Ancient History & Archaeology, History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004			
Anti-requisite(s):	ME3411			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A D Stewart			
Module teaching staff:	Dr A D Stewart			

History - Honours Level - 2017/8 - August 2017

ME3163 The Imperial City: Byzantine and Ottoman Constantinople			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module provides a detailed historical introduction to one of the greatest cities in history: Constantinople or Istanbul, capital first of the Byzantine and then of the Ottoman Empire. We will be studying the city as a continuous geographical space stretching across a millenium and a half; its structure and life at certain key moments; and how it changed over time. Specific themes to be considered include defense and provisioning, the urban economy, imperial and sacred space, and perception by inhabitants and visitors. Sources include chronicles, travel narratives, and other literary texts, as well as archeological and architectual plans and administrative documents.			
Programme module type:	Optional for Ancient History & Archaeology, History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.		
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004		
Anti-requisite(s):	ME3218, ME4854		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr D Kastritsis		

ME3206 Heretics and Social Outcasts in Western Europe			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.		
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Prof F E Andrews		
Module teaching staff:	Prof F E Andrews		

ME3214 Italian City States: from Communes to Signorie c. 1000- c. 1350				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The aim of this module is to explore the changing nature and impact of urban life in a moment of great creativity in Italy, tracing the transition from the first appearance of the Communes to government by individual lords or 'Signorie'. Topics covered will include: urban growth and the origins of the Commune, the character of Communal government, expansion into the Contado, the development of faction, the first despots, civil life, guilds and merchants, patron saints and confraternities, violence and civil disorder. The reading will be from primary sources in translation whenever possible.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F Andrews			
Module teaching staff:	Prof F Andrews			

ME3223 The Rise and Fall of the Carolingian Empire, c.750 - 900				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S MacLean			
Module teaching staff:	Prof S MacLean			

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ME3231 Mediaeval Apocalyptic Traditions 400 - 1200				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J Palmer			
Module teaching staff:	Dr J Palmer			

ME3232 Queens and Queenship in Early Mediaeval Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S MacLean			
Module teaching staff:	Prof S MacLean			

ME3237 Legal Cultures in Late Antiquity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Late Antiquity (fourth to early seventh centuries CE) is a historical period marked by rapid and striking political, social, religious and legal change. This module examines the 'legal cultures' that developed during this formative era. Students will learn how to use and understand formal legal sources - including Roman (imperial), Rabbinic, Sasanian and 'barbarian' codes and expert legal literature - as historical sources, anchored in specific situations and contexts. We will also explore curse tablets and prayers for justice from the 'under-policed' worlds of Britain and Iberia, as well as the establishment of 'universal' Christian conciliar canons and monastic rules. What distinguishes law and legal practice in the manuscript cultures of Late Antiquity from law and legal practice in mediaeval or modern societies?				
Programme module type:	Optional for Ancient History, History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof C Humfress			
Module teaching staff:	Prof C Humfress			

ME3238 Holy Lives in Late Antiquity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Self-representation tends to be something that we take for granted in today's modern world: from 'selfies' on Instagram, to lifestyle blogs on the internet, to 'kiss and tell' celebrity exposés and published memoirs. What forms did inwardness, selfhood and self-representation take in Late Antiquity? This module examines how elite and non-elite individuals understood and represented 'the self' between the fourth and early sixth centuries CE, with a focus on early Christian holy lives. We will explore 'the first introspective autobiography in Western letters': Augustine of Hippo's Confessions, as well as other less well-known first-person narratives / reported experiences (all in English translation), alongside visual and material evidence where relevant.				
Programme module type:	Optional for Ancient History, History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof C Humfress			
Module teaching staff:	Prof C Humfress			

History - Honours Level - 2017/8 - August 2017

ME3304 Age of Conquest: Edward I - Scotland and Wales (1239 - 1307)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable .			
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.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2 hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof M Brown			
Module teaching staff:	Prof M Brown			

ME3308 Adomnan and his World: Scotland and Ireland in the Dark Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Woolf			

ME3309 Mediaeval St Andrews				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 Ancient History & Archaeology, History, Mediaeval History, Mediaeval History & Archaeology, Scottish History and BA (Intl Hons) History			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr C McGladdery			
Module teaching staff:	Dr C McGladdery			

ME3313 Early Irish Society (c. 600 - 800)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module will introduce students to the social and economic life of Ireland in the seventh and eighth centuries. The principle primary material used will be law codes dating from the decades around AD 700. Ireland in this period was an entirely rural society supporting neither towns nor a cash economy yet it has provided us with perhaps as much textual evidence related to social organisation as anywhere in Europe in this period. Students will be introduced to this material, supported by literary and archaeological evidence, and encouraged to engage with a barbarian society on its own terms rather than through the eyes of others.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour per week and 1 further hour of essay feedback over the semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Woolf			
Module teaching staff:	Dr A Woolf			

History - Honours Level - 2017/8 - August 2017

ME3314 Times of trouble: civil conflicts in the later fifteenth century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Between the 1450s and 1480s many European realms were beset by periods of internal conflict which developed into open civil war. The best-known of these are the so-called Wars of the Roses in the lands of the English crown, but similar periods of domestic unrest occurred in Scotland, France, the Low Countries and the Spanish realms. This module examines the causes of political dissent and conflict: dynastic, social, political and economic and their effects on the developing authority of royal governments. The roles and rights of great noble houses in relation to the crown and to their own regional hegemonies are also examined as is the use of political language, of royal sovereignty and of resistance to misrule, in an era of contested legitimacy. This is a study of political crises and civil warfare which focuses primarily on the lands of the English and Scottish crowns but also examines common and distinct themes from other fifteenth-century realms.</p>				
Programme module type:	Optional for History, Mediaeval History, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof M Brown			
Module teaching staff:	Prof M Brown			

ME3420 Rich and Poor in the Later Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will examine the attitudes towards wealth and poverty in the context of medieval western Christianity. It will explain how a religion that preached poverty dealt with wealth and the way of life of its rich faithful. It will also focus on the key role played by charity in order to shorten one's stay in purgatory and achieve salvation. The module will discuss the following topics: the chivalric virtue of largesse, conspicuous consumption, showing status through clothes, banquets (and fasting), the Franciscan ideal of holy poverty, the theological aspects of charity, how charity was practiced, hospitals, categorization of poor people, etc. The objective of the module is twofold: first, offering an overview of how the rich and the poor lived (or managed to survive) in the Middle Ages and, second, explaining how the two groups interacted and needed each other.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Del Campo			
Module teaching staff:	Dr A Del Campo			

ME3425 The Age of Revolt (1250 - 1450)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: 1-hour Written Examination (Class Test) = 20%, Coursework = 80%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J M Firnhaber-Baker			
Module teaching staff:	Dr J M Firnhaber-Baker			

ME3426 Women and Gender in the Later Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 15%, Coursework = 55%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J M Firnhaber-Baker			
Module teaching staff:	Dr J M Firnhaber-Baker			

History - Honours Level - 2017/8 - August 2017

ME3427 Nature and the Occult in the Late Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores how late medieval European society understood its place in the universe. From the twelfth century onwards, Latin Christendom achieved advances in a number of areas of learning, partly as a result of increased contact with Arab and Greek knowledge. Students will examine developments in areas such as geography, natural philosophy, astronomy, and medicine, as well as looking at various occult practices such as magic, alchemy, and necromancy. The subjects touch upon what was the often blurry divide between categories such as natural and supernatural, magic and science, reason and faith, and licit and illicit.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 15%, Coursework = 55%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Del Campo			
Module teaching staff:	Dr A Del Campo			

ME3602 The Crusades viewed from the other side: Muslim perspectives				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module examines the phenomenon of the Crusades from Muslim viewpoints. It analyses the impact of the First Crusade on the unprepared Muslim populations of Syria, Palestine and Egypt and their initial responses. It discusses the issue of the defilement of Muslim sacred space in Jerusalem and the gradual revitalisation of jihad and the role of that concept in the Muslim recovery of the lands conquered by the Crusaders. Military aspects of the conflict are also analysed. The socio-cultural impact of Muslim-Crusader co-existence for almost two centuries will also be discussed. The importance of the key figure of Saladin will be highlighted. Students will also look at modern Muslim discourse about the Crusades and the way in which they are re-interpreted in polemical writings today.				
Programme module type:	Optional for Ancient History & Archaeology, History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof C Hillenbrand			
Module teaching staff:	Prof C Hillenbrand			

ME3608 Eastern Approaches: Early Mediaeval Armenia c. 500 - 750				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 & Archaeology, Mediaeval Studies, Middle East Studies and B.A. (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr T W Greenwood			
Module teaching staff:	Dr T W Greenwood			

History - Honours Level - 2017/8 - August 2017

ME3612 Cataclysm and Consolidation: the Reconfiguration of the Middle East in the Seventh Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module traces the collapse of the established political order across the Middle East, through the eclipse of Sasanian Persia and the emasculation of the East Roman Empire, and the dramatic emergence of a new and dynamic Islamic polity. The module will explore the political, social and cultural aspects of these developments, discerning what changed, and at what rate, and what survived relatively unscathed. All the topics will be explored through close analysis of translated extracts from a wide range of sources in Greek, Arabic, Armenian, Syriac and Latin, set alongside material, numismatic and papyrological evidence.</p>				
Programme module type:	Optional for Ancient History & Archaeology, History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002 OR 60 credits from AN1002, AN2002, AN2003, CL2004			
Anti-requisite(s):	ME3228			
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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr T W Greenwood			
Module teaching staff:	Dr T W Greenwood			

ME3617 The Mamluks And The Mamluk Sultanate				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The module will examine the mamluk phenomenon, looking at the development of the institution. It will then consider the mamluks' rise to power in Egypt and Syria, in the face of assaults by crusaders and Mongols, and their formation of a powerful empire, and what has been termed a 'Pax Mamlukica' in the region. The structures of the Sultanate will be examined, as well as the society over which they ruled. This was a dynamic period, which witnessed significant political, military, economic and social developments; it also saw the production of numerous works of scholarship and the transformation of the urban landscape of Cairo and other cities.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A D Stewart			
Module teaching staff:	Dr A D Stewart			

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:	2017/8			
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 & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S MacLean			
Module teaching staff:	Prof S MacLean			

History - Honours Level - 2017/8 - August 2017

ME4752 The Wars of the Bruces: Kings, Nobles and Communities in the British Isles (1306 - 1346)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed			
<p>Through much of the British Isles the opening decades of the fourteenth century were characterised by war and political troubles. The Scottish war, which had begun in the 1290s, intensified and widened through the 1300s and 1310s. The ambitions of Robert Bruce were at the heart of this extended conflict which spread from Scotland into northern England and Ireland. His opponent, Edward II of England, experienced revolts in Wales and repeated opposition and civil war in England which culminated in the first deposition of an English king since the Norman Conquest. War and rebellion in England, Scotland, Wales and Ireland involved issues of contemporary political ideology and altered the internal character and external relationships of these lands. This module uses the reigns of Robert Bruce and Edward II to examine issues of kingship, community and identity in the early fourteenth century. It pays special attention to questions of legitimate authority and resistance and examines the way in which major nobles, like Thomas of Lancaster, Roger Mortimer and James Douglas operated as royal lieutenants, leaders of the opposition or regional magnates. Particular focus is placed on the key narratives of the period like the Gesta Edwardi Secundi and John Barbour's The Bruce and on the place of kingship and community in a wider European context.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof M Brown			
Module teaching staff:	Prof M Brown			

ME4756 Historia Brittonum: Inventing the Past in Ninth-Century Wales			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
Availability restrictions:	Available only to students in the Second Year of the Honours Programme		
Planned timetable:	9.30 am - 12.30 pm Wed		
<p>Historia Brittonum was written in North Wales in the 820s. It purports to tell the story of the Britons from earliest times until some point in the 680s. In this Special Subject we shall be looking at the text itself and the context of its production and examining its sources and analogues - including the reworking of known Late Antique sources, some of the earliest versions of the origin legends of the Britons, the Irish, the Picts and the English and various hagiographical and historiographical motifs. The module will look at the modern reception of the text as well as the author's motivations and methodologies and will form a lens through which students can view the construction of histories in the early middle ages.</p>			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Scottish History degrees and BA (Intl Hons) History		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 63 hours	Guided independent study: 537 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%		
Re-assessment pattern:	New coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000 - 5,000-word essay = 100%		
Module coordinator:	Dr A Woolf		
Module teaching staff:	Dr A Woolf		

History - Honours Level - 2017/8 - August 2017

ME4806 The Age of Charlemagne c. 750 - 830			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.		
Planned timetable:	9.30 am - 12.30 pm Wed		
<p>Charlemagne's reputation as the 'Father of Europe' has seen his memory claimed and reused by, among others, Napoleon, the Nazis, and the European Union. The study of his reign enables us to ask about the origins of Europe, and the transformation of the world of Late Antiquity into that of the Middle Ages. His reign was dominated by brutal but sophisticated military campaigning, which resulted in the rapid establishment of an empire of around 1 million square kilometres. At the same time, however, the emperor surrounded himself with the great scholars of the day, and embarked on an ambitious and serious mission to completely reform society according to Christian moral principles. Charlemagne is therefore a paradoxical and intriguing character. He is also the best documented early mediaeval ruler by some way, and we will use a variety of types of source (including annals, histories, biographies, visions, governmental records, architecture, art and poetry) to examine warfare, court politics, ritual, ideology, the cult of the saints, religious reform and culture in the late eighth and early ninth centuries. We will also study the various pagan, Christian, Islamic and Celtic societies which came under Frankish attack in the period, and consider how Charlemagne was remembered, including the rumours of scandal, incest and visions of the emperor in hell which circulated soon after his death.</p>			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology and BA (Intl Hons) History.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 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%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr J Palmer		
Module teaching staff:	Dr J Palmer		

ME4807 The Early Mendicants: Francis, Clare and Dominic (c. 1180 - c. 1270)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed			
This module will use a rare combination of written and visual sources to examine and compare the personalities, careers and impact of Saints Francis, Clare and Dominic and the Orders they founded. Themes to be considered will include the influence of their immediate predecessors and contemporaries in the 'evangelical awakening', the problems posed by the sources for the lives of the saints themselves, poverty, mendicancy and itinerant preaching, the impact of their cults on art and architecture, institutional developments and relations with the papacy, the secular church, the inquisition and the universities.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F E Andrews			
Module teaching staff:	Prof F E Andrews			

ME4815 France from Philip Augustus to Philip the Fair				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module focuses on France from the accession of Philip II Augustus in 1180 to the aftermath of Philip IV the Fair's death in the 1310s. Over the course of this long century, the Capetian monarchy developed from an anaemic personal kingship restricted to the Ile-de-France into a bureaucratically administered government that covered much of modern France.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies and BA (Intl Hons) History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 9%, Coursework = 31%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J M Firnhaber-Baker			
Module teaching staff:	Dr J M Firnhaber-Baker			

History - Honours Level - 2017/8 - August 2017

ME4855 Crusaders, Mongols and Mamluks: West and East in the Mid-Thirteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed			
<p>This module will consider the range of interactions between the Latin West and the powers and cultures of the Near East and beyond, in the period will roughly between the first two Councils of Lyons, 1245-74, both of which dealt with crusading to the Levant and with matters relating to the Mongols: initially their threat and latterly the opportunities for alliance. The module will examine the crusades of the Louis IX, in their wider context; the arrival of the Mongols in the West and the creation of Mongol states there; and the beginnings of the Mongol-Mamluk conflict and of attempts to create an Ilkhanid-Latin alliance. We will look in some depth at a variety of sources, especially focusing on the account of Louis IX's crusade by John of Joinville, and the accounts of two Franciscan travelers in the Mongol Empire, John of Plano Carpini and William of Rubruck.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Middle East Studies and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A D Stewart			
Module teaching staff:	Dr A D Stewart			

ME4856 From Byzantium to the Ottoman Empire			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
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>Between the Latin occupation of Constantinople 1204-61, which coincided with the consolidation of Seljuk power in Anatolia, and the Ottoman conquest of the city in 1453, over two centuries elapsed which were formative for the region. During this time, the legacies of the Byzantine, Seljuk, and Mongol empires and of the Crusades remained politically and culturally influential, but real authority came to reside in a wide variety of regional actors with diverse roots. The fragmentation only ended with the final consolidation of Ottoman power in the second half of the fifteenth century. This module will study the period in as comprehensive a way as possible, in order to gain a broad understanding of political, economic, and cultural life.</p>			
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.		
Anti-requisite(s):	ME3614		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 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%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr D Kastritsis		
Module teaching staff:	Dr D Kastritsis		

History - Honours Level - 2017/8 - August 2017

ME4998 Honours Dissertation in Mediaeval Archaeology			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
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>Specialised dissertation of 12,000 words on a topic in Mediaeval Archaeology for Honours students in the Mediaeval History and Archaeology degree. 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 a member of staff (in most cases 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:	Compulsory for Mediaeval History & Archaeology.		
Anti-requisite(s):	HI4997, HI4998, HI4999		
Learning and teaching methods and delivery:	<p>Weekly contact: • In week 12 of Semester 1, for a preliminary organisational meeting with confirmed supervisor. • In week 0 or 1 of Semester 2, to discuss the overall progress and plan of further work, and the dissertation plan and indicative bibliography (which must be submitted by Friday of week 2). • In an informal (but compulsory) presentation of the topic and progress so far, to a staff member and between two and four other students, in week 4. • To give detailed feedback on draft material (which must be submitted by Friday of week 5). • In up to three further meetings arranged at the student's request during the semester.</p>		
	Scheduled learning: 8 hours	Guided independent study: 292 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>		
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)		
Module coordinator:	Dr C McGladdery		

Modern History (MO) modules

MO3005 The Early Reformation in Europe (1517 - 1555)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr M McLean			
Module teaching staff:	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:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3049			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr D Allan			
Module teaching staff:	Dr D Allan			

History - Honours Level - 2017/8 - August 2017

MO3027 Women and Men in Europe (1500 - 1800)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>What were relations between women and men like during the early modern period? This module will assess the impact of major intellectual and social movements - the Renaissance, the Reformation and the Scientific Revolution - on legal, scientific and philosophical ideas about women. It will also examine women's day-to-day experiences, focusing on themes such as marriage and the family, sexuality and the body, work and religion. It will explore notions of masculinity and femininity, considering how these were constructed and how their meanings have changed over time.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E Maglaque			

MO3029 The Northern Renaissance				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The Black Death, the Great Schism, and Hundred Years' War transformed Northern Europe at the end of the Middle Ages. New and dynamic political communities emerged - such as the Low Countries, the Holy Roman Empire, Burgundy, France, and England - which, although connected to the Mediterranean world by trade and culture, expressed their relationship to the Classical world in very different terms. This module will explore the distinctive nature of Northern Europe through themes such as the rise of universities, lay religious movements, court and civic patronage, Christian humanism and the Reformation. Students will read texts by Erasmus and Thomas More and examine the art of van Eyck, Durer, Holbein and Cranach.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr M McLean			

MO3038 War and the State in the Era of the "Military Revolution" (1550 - 1730)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	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.			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002 OR 60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J Condren			
Module teaching staff:	Dr J Condren			

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:	2017/8			
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 and community, social relations and local government, poverty and its relief, courtship and marriage, young and old, male and female, population and its determinants, the body and health, and 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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3015			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof R A Houston			
Module teaching staff:	Prof R A Houston			

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MO3041 Culture and Mentalities in Early Modern England (c. 1500 - 1800)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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 'alternative' belief (inc. astrology and witchcraft), technology and the rise of science, environment, local, regional, and national identities, consumption and the world of goods, recreation and leisure, education, literacy and communication, time, space and work, individualism and corporatism, risk and probability, crime and violence, and patterns of punishment. The course has an historiographical component, exploring why and how historians have written about the topics it contains. 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.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3015			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof R A Houston			
Module teaching staff:	Prof R A Houston			

MO3043 Early Modern Rome (1300 - 1667)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module introduces students to the city considered the centre of the Western World and the heart of Christianity and later, Catholicism during the Reformation period. It examines the changing city as well as the its changing image and propaganda during a period when its primacy and importance was constantly and violently challenged and reasserted as a symbol of civilisation.</p>				
Programme module type:	Optional for History, Mediaeval History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002 OR 60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Anti-requisite(s):	MO3015			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 13%, Coursework = 47%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J Condren			
Module teaching staff:	Dr J Condren			

MO3044 Topics in Renaissance Venice				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module introduces students to the history, culture, and politics of Venice at the height of its power. Renaissance Venice was simultaneously the capital of a maritime and terrestrial empire, a glittering international destination for trade and culture, and the site of controversial innovations like Protestant thought, ghettos, and the printing press. It was for much of this era the only European model of a lasting independent republic. Then and now, it has been subject to a compelling but contested effort in mythmaking and propaganda.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002 OR 60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E Maglaque			

MO3047 The Tudors: Power and Piety in Sixteenth-Century England				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3045, MO3908			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J Rose			
Module teaching staff:	Dr J Rose			

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MO3049 Political Thought From Machiavelli to Tocqueville			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>This module will provide in depth study of particular figures both major and minor in the history of early modern to modern political thought in Europe, and a sense of some of the most significant contexts through which to understand political writings at a time of near-constant political, religious and economic upheaval. The focus of the course will be the long eighteenth century because it was during this period that longstanding controversy came to a head about empire, forms of government, sciences of human endeavour and morals more especially, commercial society, public credit, the possibility of perpetual peace, and the existence of nation states. The course begins with Machiavelli's call for an 'empire for increase' modelled on that of Ancient Rome, and ends with Tocqueville's claim that the future for all European states could be discerned from the development of equality in North America.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.		
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002		
Anti-requisite(s):	MO3019		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Prof R Whatmore		
Module teaching staff:	Prof R Whatmore		

MO3081 The Ottoman Empire 1300 - 1700				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module studies the development of the early modern Ottoman Empire from its rise and definitive establishment in the late Middle Ages until the end of the seventeenth century. In addition to knowledge of key events and institutions, the module aims to provide an introduction to the culture and social composition of the empire in the period under examination. Specific themes include Ottoman expansion in Europe and the Middle East; crisis and change; centralisation and its discontents; relations with neighbours, such as Safavid Iran, the Habsburg Empire, and the Portuguese in the Indian Ocean; and Ottoman attitudes toward the empire and wider world.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002 OR 60 credits from ME1003, ME1006, ME2003, HI2001, MH2002			
Anti-requisite(s):	ME3610			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr D Kastritsis			
Module teaching staff:	Dr D Kastritsis			

MO3162 Early Modern Scotland in the age of British Unions (1603-1707)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores the wider issues raised by the unification of Scotland, England and Ireland under one monarch in 1603. Beginning with a review of sixteenth-century concepts of 'Britain', the module proceeds to explore the profound political realities that resulted from the Union of the Crowns. The module will examine the development of proto-British institutions in the Jacobean age through to their decline in the Carolinian era that followed. The conflicts that subsequently engulfed the Stuart kingdoms left deep divisions within Scottish society leading to the Cromwellian conquest of the country. The module assesses the impact of the Restoration regime on Scottish society and the military and ideological struggles that culminated in the Treaty of Union of 1707.				
Programme module type:	Optional for History, Modern History, Scottish History and BA (Intl Hons) History			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S Murdoch			
Module teaching staff:	Prof S Murdoch			

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MO3163 Scotland and the Wider World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The history of Scotland at St Andrews is taught with an eye to the European context that has shaped the indigenous culture and institutions of the country. The period from 1600 to 1750 witnessed large-scale migration from Scotland to a variety of destinations including Scandinavia, Poland-Lithuania and the Dutch Republic. The motivation for these movements can only be understood if viewed through both Scottish and Continental lenses. As such, this module profiles the European states with which Scotland developed enhanced relations be they political, commercial, official or unofficial. It concludes with consideration of the changing axis of Scottish migration to Asia and the Transatlantic world.</p>				
Programme module type:	Optional for History, Modern History, Scottish History and BA (Intl Hons)History			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S Murdoch			
Module teaching staff:	Prof S Murdoch			

MO3166 Debating Britain: Anglo-Scottish Unionism 1521 - 1707				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof R Mason			
Module teaching staff:	Prof R Mason			

MO3217 Travel Cultures in Europe in the Eighteenth and Nineteenth Centuries				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>The time between roughly 1770 and 1850 was the classical age of travel and travel writing. What used to be an exclusive practice of nobles in the early modern period became less exclusive during the second half of the 18th century. Along with the emergence of the European bourgeoisie and the development of book markets, travelogues became a major - if not the main - source of information and knowledge within Europe around 1800. What is more, they constituted a main source for sciences such as geography, statistics as well as for images of national or regional characters. Thus, travelogues are an important source that allows analyzing how people perceived Europe (and the world), how travelers perceived space or described the crossing of borders.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr B Struck			

MO3218 The American Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>The first of a number of late eighteenth century uprisings overturning powerful monarchies, the American Revolution brought about the demise of Britain's first empire and resulted in the writing of the Constitution and the establishment of democratic government. This module will focus on the forty years after 1763, examining the reasons why Americans sought to free themselves from British rule, the experience of Revolutionary War, and the problems faced by those who made it their task to design a new form of government for the United States. As well as telling the story of the elite rulers who were at the forefront of the rebellion, the module will also explore the experiences of everyday Americans during these decades of tumultuous social and political change.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E Hart			
Module teaching staff:	Dr E Hart			

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MO3222 French Fancy and Cool Britannia? Franco-British Cultural Relations from Seven Years' War to French Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr S Easterby-Smith			
Module teaching staff:	Dr S Easterby-Smith			

MO3223 Early colonial South Asia (c. 1700 - 1857)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 module 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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 10-hour Take-home Examination = 40%, Coursework = 60% (including presentation 10%)			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Yechury			
Module teaching staff:	Dr A Yechury			

MO3263 British Culture in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr D Allan			
Module teaching staff:	Dr D Allan			

MO3302 Imperial Russia 1815 - 1917				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr F Nethercott			
Module teaching staff:	Dr F Nethercott			

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MO3320 Imperialism and Nationalism: The British Empire in India 1857 - 1947				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will focus on "the Jewel in the Crown" - Britain's empire in India. The aim is to provide both an overall view and understanding of the development of the Raj as well as more in-depth knowledge and appreciation of select key issues, events and personalities. The Years of direct British rule from 1858 to Independence in 1947 with the partition of the sub-continent into India and Pakistan, will be studied through an examination of rebellion and revolt in the mid 19th century, consolidation of imperial power through strategies of coercion and collaboration, the rise and growth of an Indian nationalist movement from the late 19th century; the impact of two World Wars, economic costs and benefits of empire, the role of Gandhi and the ideology of non-violent protest, religion and politics - the growth of Muslim separatism and the trauma and bloodshed of Partition.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: Weekly lecture and seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr C Kaul			
Module teaching staff:	Dr C Kaul			

MO3329 The Kaiser: Aspects of Emperor Wilhelm II (1859 - 1941)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Revered as the 'modern central person' or described as simply insane, Germany's Kaiser Wilhelm II (1859 - 1941) played a central and highly visible role on the European political stage. Over the last 25 years the fascination this mercurial and deeply problematic ruler held for his contemporaries has been echoed by a large body of sophisticated historical scholarship. Focusing on Wilhelm's personality and his politics as well as on the context and structure of his reign, historians have explored the importance of key issues such as psychological trauma, disease, media, publicity, scandal, monarchical networks, modern kingship and political culture. This module will examine selected aspects of the life of Wilhelm II in order to arrive at an analytical evaluation of this individual and his impact as well as of the wider political and cultural world which he inhabited.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 16%, Coursework = 24%			
	As used by St Andrews: 24-hour Take-Home Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F L Muller			
Module teaching staff:	Prof F L Muller			

MO3331 The Victorians: Religion and Respectability				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour and occasional fieldwork.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A K Fyfe			
Module teaching staff:	Dr A K Fyfe			

MO3334 Nature and Society in Victorian Britain				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) History. Optional for Sustainable Development.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, 1 hour online discussion, and 1 office hour.			
	Scheduled learning: 33 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Fyfe			
Module teaching staff:	Dr A Fyfe			

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MO3335 The Japanese Empire and its Aftermath (1873 - 1952)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K Lawson			
Module teaching staff:	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:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3381			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K Ferris			
Module teaching staff:	Dr K Ferris, Dr S Tyre			

MO3337 China's Revolutions (1850 - 1989)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K Lawson			
Module teaching staff:	Dr K Lawson			

MO3338 Disease and the Environment (c. 1500 - 2000)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this module examines the manner in which sickness and death have shaped human history - both biologically and culturally - over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History. Optional for Sustainable Development.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3023, MO3909			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J F M Clark			
Module teaching staff:	Dr J F M Clark			

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MO3346 Politics, Culture and Society in the French Revolution (1789-1815)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Reading is a skill that most of us take for granted, yet it gives us access to an amazing breadth of information and entertainment. This module examines the emergence of a mass reading culture in Britain in the long nineteenth century. It considers the rise of literacy and education, and the provision of cheaper forms of printed matter. It investigates the roles of authors, editors, publishers and booksellers in bringing print to the new reading public. As well as using printed and online secondary material critically to summarise and critically evaluate scholarly arguments about the history of the book, students will also have the opportunity to do hands-on research with original printed primary material and to learn about how books and magazines were made.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3221			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr S Easterby-Smith			
Module teaching staff:	Dr S Easterby-Smith			

MO3349 The American Metropolis				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The United States is home to some of the most iconic, the largest, and the most violent, cities in the world, and this module traces their fortunes from foundation to the present. British America's towns began as small villages inhabited by a few intrepid settlers. By 1783, however, some towns had matured to become the site of the Declaration of Independence and the penning of the Constitution. Throughout the nineteenth century, rapidly growing cities continued to be at the cutting edge of the forging of the American nation. Looking at issues such as industrialization, immigration, the gold rush and the settlement of the west, crime and, finally, the process of "white flight" to the suburbs, the module will explore the distinctive and colourful story of urban life in the United States.</p>				
Programme module type:	Optional for History, Modern History, and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3713			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E Hart			
Module teaching staff:	Dr E Hart			

MO3351 Doing and Practicing Transnational and Global History in the Late Modern World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html			
<p>Over the past ten years transnational and global history have emerged as some of the most vibrant fields in late modern history. With their interest in cross-border activities, with their focus on the flow and interconnection of ideas and goods and their transformation between different cultural and national contexts, with their emphasis on people on the move who create nodes between cultures, both transnational and global history very much reflect the world we live in.</p> <p>The module provides an entry point to the field of transnational history, its approaches and tools. It is deliberately designed to be open and flexible as it seeks to allow students to take ownership of the content and the cases to be studied. Following an introduction to the field along a series of text based seminars, the module is mainly designed around a number of workshops and training sessions that will equip students with the skills to analyse, map and visualise transnational histories - that is "doing" and "practicing".</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 8 weeks), 2-hour practical classes (x 3 weeks), 1 office hour (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework (including presentation) = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr B Struck			
Module teaching staff:	Dr B Struck			

MO3352 Migrant South Asia (c. 17th-20th centuries)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will focus on the social and cultural history of migration from South Asia from the 17th to the 20th centuries. It will examine the different motivations for migration such as trade, labour recruitment, education and assess how colonial rule and structures of the British Empire affected these migrant trajectories. It will also look at how the memories of South Asia and nostalgia shaped diasporic lives. A trans-national approach to these questions will enable the students to compare the collective experiences of different migrant groups from the plantations of Trinidad and Fiji to the commercial centres of London and New York.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Yechury			
Module teaching staff:	Dr A Yechury			

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MO3353 The Rise of the Nation State in Central Europe (1912 - 1941)			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>The study of nationalism mainly stems from Central Europe. But, unlike elsewhere in the world where usually states overhauled their populations into nations, in Central Europe languages were equated with nations. As a result the extant states had to be destroyed to make space for ethnolinguistic nation-states. Usually, the classics of the study of nationalism open their analyses with the 'unification' of the Italian and German nation-states as an ethnolinguistic reaction to French revolutionary nationalism. However, the region's first nation-states were founded in the Ottoman Balkans on an ethnoreligious basis, which only much later was either combined with or replaced with language as the basis of nationalism, in emulation of the German and Italian nationalisms. This novel Central European norm of nations speaking their unique languages and living in their own nation-states rapidly delegitimized the remaining non-national polities, and made non-national populations into 'foreigners'.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.		
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002		
Anti-requisite(s):	MO3333		
Learning and teaching methods and delivery:	Weekly contact: 2 seminars (x 11 weeks), 1 surgery hour (x 11 weeks)		
	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%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr T D Kamusella		
Module teaching staff:	Dr T D Kamusella		

MO3381 French Algeria (1830-1962)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Between the conquest of 1830 and independence in 1962, Algeria was the figurehead of the French empire and a breeding ground for the theories and practices of colonialism that were implemented elsewhere. This module examines French and Algerian experience in colonial Algeria, considering the initial process of pacification, Algerian resistance, French colonial doctrines, French views of the Algerians, the emergence of anticolonial nationalism, the struggle for liberation. The War of Independence, a major political and social crisis with lasting effects on contemporary France and Algeria, will be studied in detail, and the module will also address the legacy of colonialism in both nations.				
Programme module type:	Optional for History, Middle East Studies, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3322, MO3336			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr S Tyre			
Module teaching staff:	Dr S Tyre			

MO3406 The Soviet Union				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The emergence and development of the Soviet Union is traced from the Bolshevik Revolution of October 1917, via the period of Stalin's dictatorship and the leaderships of Khrushchev and Brezhnev, up to the end of the Gorbachev era which culminated in the dissolution of the Union in 1991. The module studies interlinked political, ideological, social, economic and cultural themes. The role of the Soviet Union on the international stage is also examined.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr F Nethercott			

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MO3422 The United States in Depression and War (1929 - 1945)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr G A M Mitchell			
Module teaching staff:	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:	2017/8			
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.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K Ferris			
Module teaching staff:	Dr K Ferris			

MO3425 Stalinism, Nazism and Central Europe (1912 - 1941)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The decade-long conflagration (1912-23) replaced Central Europe's empires with ethnolinguistic nation-states. Soon Central Europe's nation-states rejected the West's impositions and control and in this process ditched democracy for authoritarianism and expansionism in the name of this or that nationalism. Subsequently the region's polities chose among Soviet revolutionary totalitarianism (communism), Italy's fascism, and later Germany's Nazi totalitarianism (National Socialism). All three political models wanted to replace the old world with a new man of the future, and on the way toward this goal engaged in grand-scale socio-political engineering. At the onset of World War II Central Europe was split between the Soviet Union and the German Empire (aka the Third Reich). Hence, the region was effectively erased from the map of the continent until the turn of the twenty-first century, its fragments construed as belonging to Western and Eastern Europe.</p>				
Programme module type:	Optional for the Modern History, MA Hons History, BA Int Hons History degrees.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO3332			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars (x 10 weeks), 1 surgery hour (1 x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Kamusella			
Module teaching staff:	Dr T Kamusella			

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MO3461 Britain in the 1920s and 1930s: Aspects of everyday life				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explores the 'lived experience' of Britain in the 1920s and 1930s via an examination of several key aspects of everyday life. As such it provides an introduction to the historiographical re-interpretation of a period once known predominantly as 'the devil's decade'. Historical study of an 'alternative history' of interwar Britain has gained increasing importance over recent decades. It stresses a whole range of aspects of social, cultural and economic life that are more positive than traditional images of unemployment, depression and poverty suggest. The growth of suburbia and consumerism; developments in attitudes towards women, and men; and changing attitudes to sex; are just some of the topics in this 'alternative' history. Our aim is to examine how the experiences of the majority were transformed in this period, and to gain a fuller understanding of these two vital decades in British history through an examination of the minutiae of daily life.</p>				
Programme module type:	Optional for History, Modern History, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J J Nott			
Module teaching staff:	Dr J J Nott			

MO3513 Heavenly Decade: The 1960s				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will concern itself with the 'Sixties experience' as a worldwide phenomenon. The culture of 'sex, drugs and rock and roll' affected youth around the world. Social conventions were torn down in the frenzied obsession with rebellion and the 'counterculture'. But there was also a majority who neither tuned in, turned on, nor dropped out - youths who deplored the drug culture, held sex sacred, and preferred the Beatles to the Rolling Stones. The module will examine the links between countercultural movements in Berkeley, Berlin, Paris, Mexico City and elsewhere. Due primarily to the availability of sources the module will have an American bias, but there will be sufficient exploration of youth movements in other countries to provide an illuminating cross-cultural perspective. The module will also explore whether the heavenly decade was mainly myth, important more in retrospect than at the time.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Anti-requisite(s):	MO4952			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof G De Groot			
Module teaching staff:	Prof G De Groot			

MO3514 The Life and Times of the Atom Bomb				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof G de Groot			
Module teaching staff:	Prof G de Groot			

MO3516 Popular Culture, Nation and Society: Leisure in Britain 1880 - 1960				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) History.			
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 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%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J J Nott			
Module teaching staff:	Dr J J Nott			

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MO3561 Thatcherism, the 'new right', and the remaking of British politics, c. 1940 - 1997			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>This module explores the course of British politics from the second world war until the election of New Labour in 1997, focusing on the intellectual origins and political impact of the Conservative governments led by Margaret Thatcher between 1979 and 1990. With an emphasis on both primary sources and historiographical debates, the module traces the development of the ideological outlook that came to be christened 'Thatcherism', from the anti-planning rhetoric of the 1940s to the perceived 'crisis' facing Britain in the 1970s, before assessing the performance and legacy of 'Thatcherism' in power. By examining the relationship between ideology and electoral politics, the module offers an insight into some of the key trends in the remaking of British politics between 1945 and 1997, as well as enabling an investigation into the means through which intellectual and economic theories are translated into rhetoric and imagery capable of appealing to a popular audience.</p>			
Programme module type:	Optional for History, Modern History, Scottish History and BA (Int Hons) History		
Pre-requisite(s):	60 credits from MO1007, MO1008, MO2008, HI2001, MH2002		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 dedicated office hour (x 11 weeks)		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	4,000-5,000 word essay on a subject to be decided by course organiser = 100%		
Module coordinator:	Dr M Petrie		
Module teaching staff:	Dr M Petrie		

MO4806 Britain and the Thirty Years' War (1618 - 1648)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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 explores the wider issues raised by the entanglement of Scotland in the Thirty Years' War, 1618-1648, covering both the diplomatic and military aspects of the conflict. The module illuminates the political processes that led to the participation of as many as 50,000 Scottish troops in the war that took place at the heart of the Holy Roman Empire initially through loyalty to the Scottish princess Elizabeth Stuart, wife of Frederick V of the Palatinate. The module covers the official alliances of the Stuart regime, the independent diplomacy of the Scottish parliament and the actions of numerous influential Scots involved with the combatant nations.				
Programme module type:	Optional for History, Modern History, Scottish History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 564 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 3-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S Murdoch			
Module teaching staff:	Prof S Murdoch			

MO4903 Blood, Courts and Glory: The Catholic Reformation				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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 offers a study of the variety of reform movements which sprang up within the Catholic Church in the late Mediaeval and Early Modern periods. Through an examination of a rich variety of sources, the module will examine, among other themes, the power struggles of the fifteenth century, the relationship between the Renaissance and religion, missions in the New World, the Inquisition, new religious orders, and the tension between Tridentine Catholicism in Rome and the local practice of religion. Students will consider the bonds between belief, politics and culture in the Early Modern period.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 66 hours		Guided independent study: 234 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E Maglaque			

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MO4904 Madness and its Social Milieu in Britain (1560 - 1820)			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
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>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 BA (Intl Hons) History.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 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%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Prof R A Houston		
Module teaching staff:	Prof R A Houston		

MO4912 French Absolutism: Richelieu to Louis XIV				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>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. 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 BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour seminar, plus 1 office hour.			
	Scheduled learning: 55 hours		Guided independent study: 545 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof R A Houston			
Module teaching staff:	Prof R A Houston			

MO4914 The German Enlightenment in European Perspectives				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>"What is Enlightenment?", asked one of the leading German journals in 1783. Immanuel Kant's famous answer was: "Enlightenment is man's emergence from his self-imposed immaturity. Immaturity is the inability to use ones understanding without guidance from another." Since then the debate on this question has not come to an end. The module provides an overview on the Enlightenment. It gives an introduction into contemporary definitions as well as historiographical debates on the Enlightenment. Furthermore, it covers central aspects such as political, social, and cultural history in the 18th century. The module mainly focuses on the German lands but setting them in a European comparative context.</p>				
Programme module type:	Optional for History, Modern History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:				
Module coordinator:	Dr B Struck			
Module teaching staff:	Dr B Struck			

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MO4932 Russians Making History (1755 - 2000)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>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 BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr F Nethercott			
Module teaching staff:	Dr F Nethercott			

MO4936 Bismarck: Biography - Politics - Mythology				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>A celebrated history of German accorded Otto von Bismarck almost biblical status. The book opens with a thunderous: 'In the beginning was Bismarck'. An opinion poll published by the 'Berlin Illustrated News' in 1899 declared him the greatest statesman of the century. This module aims to approach, understand and evaluate the life, career and personality of this alleged giant. Scrutinising a large selection of primary sources and drawing on a rich body of sophisticated secondary literature, we will try to appreciate Bismarck both as a shaper and a product of his time. Consideration will also be given to Bismarck's legacy in European and German politics as well as his role and function in the pantheon of Germany's political iconography.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 25%, Coursework = 35%			
	As used by St Andrews: 2 x 2-hour Written Examinations = 40%, Coursework = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F L Muller			
Module teaching staff:	Prof F L Muller			

MO4937 Charles Darwin and the Politics of Progress				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>'Darwin' and 'Darwinism' have left considerable historical legacies that pervade our contemporary culture. This module demonstrates how knowledge of the natural world in the nineteenth and twentieth centuries was shaped by religious, political, and social commitments; and how science, in turn, shaped general culture. Drawing upon the rich primary and secondary sources generated by the Darwin industry, this module examines progress and evolutionary theories. With reference to evolution, in general, and Charles Darwin, in particular, the module examines the implications of a belief in a constantly changing world, governed by natural laws. The module concludes with an assessment of the more recent 'Darwin wars', creationism, and Intelligent Design.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J F M Clark			
Module teaching staff:	Dr J F M Clark			

MO4938 Progress and Reform: The United States (1880 - 1930)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>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 BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr G A M Mitchell			
Module teaching staff:	Dr G A M Mitchell			

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MO4940 Britain in the Era of the Great War				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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 will cover the reasons for going to war, the experience of the common soldier, the lions vs donkeys debate, the war economy, the home front experience and the efforts at reconstruction. Each topic will be covered over a fortnight, with seminar discussions and analysis of primary source material.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Anti-requisite(s):	MO3404			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour			
	Scheduled learning: 66 hours		Guided independent study: 234 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof G De Groot			

MO4952 The Kennedy Years				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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 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.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof G De Groot			
Module teaching staff:	Prof G De Groot			

MO4959 British Cinema History (1920 - 1960)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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 will examine the relationship between film and British society, from the 1920s to the 1960s. It explores the significance of film as a critical medium of cultural communication through which ideas, values, and understandings of contemporary society and of 'history'; are expressed, mediated and shaped. We will ask how films construct the world they seek to represent. The films used will address critical issues and problems that have shaped Twentieth Century British society and culture: national identity, politics and political leadership, social class and mobility, gender roles, race and major historical events such as the Depression, World War II and the growth of the Welfare State.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J J Nott			
Module teaching staff:	Dr J J Nott			

MO4962 France and Africa in the Twentieth Century: Colonialism, Anti-colonialism, Post-colonialism				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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			
In 1918, French imperial power in Africa reached its zenith. Yet the next fifty years were characterised by contradiction, decline, and conflict, as the certainties of the 'age of empire' were challenged. This module examines French imperial rule in Africa, and its legacies and afterlives, from the beginning of the twentieth century to the contemporary post-colonial era. Key topics that will be explored include the ideas that underpinned French imperialism; the effects of imperialism on colonised societies; challenges to imperial rule was challenged and undermined; the complex relationship between French republican ideals and imperialism; movements of people and ideas from Africa to metropolitan France; and the persistent and important legacies of empire in the post-colonial era.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr S Tyre			
Module teaching staff:	Dr S Tyre			

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MO4965 Ethnic Cleansing and Genocide in Twentieth-Century Europe			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
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>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.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr T D Kamusella		
Module teaching staff:	Dr T D Kamusella		

MO4967 Elizabethan England: Politics, Religion, and Personalities (1558 - 1603)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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 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 BA (Intl Hons) History.			
Anti-requisite(s):	MO4916			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J Rose			
Module teaching staff:	Dr J Rose			

History - Honours Level - 2017/8 - August 2017

MO4968 Curiosity, Empire and Science in Eighteenth-Century Europe			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
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 world was shrinking in the eighteenth century. Overseas travel increased exponentially and societies and cultures were transformed on a global scale. This course examines how overseas exploration affected science and society in eighteenth-century Europe, focusing primarily on France and its empire. The history of collecting is central: travel and trade meant that an unprecedented quantity of outlandish objects and new information circulated the globe. This course uses textual, visual and material sources to examine the histories of French exploration and empire-building, popular curiosity and collecting, and the making of the modern museum. We will link these themes to broader narratives concerning the significant cultural, social and scientific changes that took place more generally in Enlightenment Europe: education and religion; economic and industrial development, empire and the making of modern science, to name just a few.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 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%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr S Easterby-Smith		
Module teaching staff:	Dr S Easterby-Smith		

MO4970 Revolutions and Empires (1776 - 1848)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>In 1700 Europe was a patchwork of different kinds of states from absolute monarchies to free cities. During the eighteenth century the traditional survival strategies of the smaller states began to fail. The dark side of the enlightenment is the story of the decline and disappearance of so many of these small states. The revolutions that began in 1776 and were followed across Europe and beyond can all be seen as rebellions against empire. This module examines these revolutions and their consequences for the empires that they sought to limit or dismantle. The French Revolution, from being a cosmopolitan revolution to put an end to empire, turned into an attempt to create a global republican empire, and the course looks at the consequences of the Revolution for the ideals that sustained it. It goes on to examine the relationship between states after the Napoleonic Wars, and the consequences of the new forces of industrialism, socialism, utilitarianism, liberalism and democracy.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 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%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof R Whatmore			
Module teaching staff:	Prof R Whatmore			

MO4971 The City in East and Southeast Asia c. 1850 - 1950				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>This module explores the development of urban spaces in nineteenth- and twentieth-century East and South East Asia. It examines the economic, social, and political geographies of Asian cities in colonial, semi-colonial, and early post-colonial contexts as well as the way in which these cities and their residents are embedded in multiple local, regional, national, and transnational contexts. The first semester will allow students to work in depth with the rich digitized Shanghai Municipal Police Archive, and other English-language sources will include newspapers, diplomatic and trade archives, missionary and travel accounts, and some translated sources.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2 x Take-Home Examinations = 40%, Coursework (including presentations) = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K Lawson			
Module teaching staff:	Dr K Lawson			

History - Honours Level - 2017/8 - August 2017

MO4972 Understanding Resistance and Protest in Modern India (c.19th - 21st centuries)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Resistance and protest movements in India have taken different shapes and forms over the past few centuries. This module attempts to understand these protests using different categories of analysis: the countryside, urban labour, political protest, caste and gender. It will engage with different political ideologies and look at how colonialism, nationalism and independence affected and shaped the nature of protest movements in India. The students will read a wide range of primary sources including political pamphlets, government reports, contemporary narratives and oral history records. Ultimately, by locating tumultuous events within broader themes this module will give the students a long term perspective on some of the key socio-economic and political moments of post-colonial India.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework (including presentation) = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A Yechury			
Module teaching staff:	Dr A Yechury			

MO4973 Twentieth-Century Germany: A Sense of Place				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores the history of twentieth-century Germany from the perspective of place and space. Centred on the key concept of Heimat (homeland), it examines German identities from the turn of the century to the 1980s in East and West Germany. It investigates a variety of different places and spaces in both their material and symbolic dimension. The module allows students to engage with a range of different primary sources, including films, maps, travel guidebooks and the built environment.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2 x Take-home Examinations = 40%, Coursework = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr R Bavaj			
Module teaching staff:	Dr R Bavaj			

MO4974 The British Town in the Long Eighteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>From the later 1600s onwards both the population of Britain and its North American colonies grew rapidly. Many of these extra people moved to towns, which as a consequence underwent astonishing expansion. By 1800 10% of Britons lived in London, and even previously small cities like Liverpool had tens of thousands of inhabitants. In America, towns sprung up where previously there had been only forests and fields. This course examines the experiences of those Britons caught up in this new and strange urban world. We will delve into the terror and the exhilaration, the menace and the bliss, and the awe and the pity, of life in the eighteenth century city. Also, we will investigate how growing towns shaped landscapes, culture, society, economy and politics in this age of enlightenment and Revolution. The course includes field trips to Edinburgh and Glasgow.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 6%, Coursework = 54%			
	As used by St Andrews: 2 x hour Written Examinations = 40%, Coursework = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E Hart			
Module teaching staff:	Dr E Hart			

MO4975 Print, Progress and Public opinion. Towards a New History of Print Culture in Early Modern Europe				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
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>Print is rightly seen as one of the defining technical achievements of western civilisation. This course explores the intellectual, political and social impact of print as it developed between 1450 and 1800. It demonstrates that the success of print depended on jettisoning many of the assumptions that powered the first age of invention, developing new markets and finding new readers. Examined by 100% course work and team taught throughout, the module offers participants the opportunity to pursue original research agendas in a fast developing field.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 x 2-hour office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	New Coursework = 100%			
Module coordinator:	Prof A Pettegree			
Module teaching staff:	members of the research team of the Universal Short Title Catalogue project			

School of International Relations

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

International Relations (IR) modules

IR3004 International Political Economy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr W Vicek			

International Relations - Honours Level - 2017/8 - August 2017

IR3006 International Regimes and Organisations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am Tue			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Buranelli			
Module teaching staff:	Dr F Buranelli			

IR3008 International Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P Lehr			

International Relations - Honours Level - 2017/8 - August 2017

IR3011 Ethics and World Politics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	1.00 pm Fri			
<p>This module will examine some of the most important ethical questions in contemporary world politics against the background of more general debates in ethics and political theory. Its objectives are: (1) to allow students to develop a knowledge of the complexities and problems of contemporary ethical and theoretical debates as they impact upon questions of world politics and (2) to develop a thorough account of the major ethical dilemmas of contemporary world politics. The module begins with a discussion of some of the major competing ethical approaches to world politics (cosmopolitan, realist, sceptical and critical) and then moves on to a focus on issues such as the use of force, justice, environmental concerns, and the character and possible evolution of the state as the central actor in world politics. It will close with a consideration of the importance of questions of character and virtue in world politics.</p>				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr Saunders			

IR3021 Case Studies in Conflict Analysis				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon Thu			
<p>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.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T Shepperd			
Module teaching staff:	Dr T Shepperd			

International Relations - Honours Level - 2017/8 - August 2017

IR3022 International Relations and International Law			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	11.00 am Wed		
<p>This module investigates international law as a paradigm for critically analysing international relations. It starts from an assumption that international politics is so intertwined with international law concepts and practices that students and practitioners in international relations cannot operate without basic familiarity with international law. International law is an arena for debates about core values of the international system and a mechanism for the balancing of competing values that underpin it. At the same time international law is constrained by international political realities. Throughout the module we will contend not just with the fundamental assumptions about 'international order', but also question in what ways this order is developing. We will strive to better understand the complex relationship between law and politics in the international arena. The conscientious student pursuing this module should (a) be able to see international law as a useful paradigm for the understanding of international relations and be able to contextualize it within international relations theories; (b) be able to identify when a dispute among international actors would benefit from a legal analysis and discern competing values underpinning it; (c) be able to critically evaluate legal arguments and understand how their development and application is constrained by international politics, and (d) have the capacity to apply and discuss international legal rules and concepts in relation to a number of substantive issue areas covered in this module.</p>			
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester. .		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr M Peter		
Module teaching staff:	Dr M Peter		

International Relations - Honours Level - 2017/8 - August 2017

IR3023 US Foreign Policy: The Dilemmas of Empire				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am 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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof P O'Brien			
Module teaching staff:	Prof P O'Brien			

IR3024 The Politics of Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof I Taylor			
Module teaching staff:	Prof I Taylor			

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IR3029 The Logic of Irregular Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am Mon			
<p>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.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Scheipers			
Module teaching staff:	Dr S Scheipers			

IR3030 Human Rights in Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am Thu			
<p>This module introduces students to the complex debates concerning human rights, and in particular to the interrelationship between human rights in theory and in practice. While human rights is a powerful idea in our time, it is also the focus of numerous controversies. The module explores the philosophical foundations of universal human rights; the political, legal and historical development of modern human rights norms; issues and trends that have arisen since the advent of the United Nations human rights system; and the impact of human rights on the rules of international politics.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J P Hayden			
Module teaching staff:	Prof J P Hayden			

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IR3031 Globalisation and the War on Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am Tue			
<p>This inter-disciplinary module introduces students to various conceptual frameworks for thinking about the war on terror in an age of globalisation, along with a range of empirical case studies designed to illustrate these theoretical debates. A selection of readings is provided, ranging from international relations to other contributions from sociology, criminology, philosophy, history and political science. Theoretical issues examined include globalisation as a new security paradigm; the notion of a globalised War Risk society; the clash of civilisations vs. the continued relevance of realism; and re-defining what 'war' means in the war on terror. Case studies comprise NATO's transformation; war on Iraq; and emerging non-military attempts at global governance in controlling terrorism.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L Mills			
Module teaching staff:	Dr L Mills			

IR3032 Globalisation and its Disjunctures				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Thu			
<p>Debates concerning globalisation have intensified since 9/11, the US-led intervention in Afghanistan and Iraq, the emergence of various Islamist groups that proclaim jihad, the proliferating security concerns around the world (particularly following the Madrid and London bombings), debates concerning the environment, and the rise of the new economic powers of China and India. Globalisation is a complex phenomenon that is defined in so many different ways that it is difficult to know what it means and to predict its potential utility. The literature on globalisation is diverse in terms of the specific approaches adopted and conclusions reached. There is no single theory of globalisation. Rather globalisation involves complex dialectical processes of homogenisation and differentiation, integration and fragmentation, and universalisation and particularisation. The purpose of this module is to critically explore both the theory and practice of globalisation and its disjunctures in the contemporary world.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L Mills			
Module teaching staff:	Dr L Mills			

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IR3033 Post-Conflict Transition in Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am Thu			
<p>This module provides a detailed introduction to the theory and practice of conflict management in sub-Saharan Africa. Focusing principally on United Nations peace operations after the Cold War, the module will explain the evolution of the UN's post-conflict role in Africa and analyse issues of sovereignty, intervention, security, and development. The post-conflict transition of several states will be examined, including Namibia, Mozambique, Rwanda, Somalia, Sierra Leone, Liberia, Sudan, and the Greater Great Lakes region. The module will also articulate the impact of regional security dynamics on post-conflict transition and discuss the role of regional organisations in Africa. Finally, critical approaches to peacekeeping and peace-building will be evaluated.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J R McMullin			
Module teaching staff:	Dr J R McMullin			

IR3042 Representations of Violent Conflict: Research Seminar				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Tue, or 10.00 am - 12.00 noon Wed			
<p>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.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (2 x 2-hour seminar in weeks 2, 4, 7, and 10), and occasional required 1-hour case study workshops (weeks 4, 6, 8, and 10).			
	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 = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J McMullin			
Module teaching staff:	Dr J McMullin			

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IR3045 Violence in Deeply-Divided Societies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am Wed			
<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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T Wilson			
Module teaching staff:	Dr T Wilson			

IR3046 Foreign Policy of Modern China				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon Mon			
<p>This module will provide an introduction to the major foreign policy issues and challenges facing the People's Republic of China in the post-cold war world. The primary focus will be on Beijing's evolving opening to the international system since 1949, from Maoist to post-Maoist and post-Dengist global linkages and cooperation. The module will also examine domestic actors in China's foreign policymaking, including the CCP and the People's Liberation Army, and the effects of China's economic development and reforms. Specific regional case studies will be discussed, including changing Sino-American relations and China's relations with the Asia-Pacific region.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Ogden			
Module teaching staff:	Dr C Ogden			

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IR3048 Peacekeeping and Humanitarian Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Tue or 1.00 pm - 3.00 pm Tue			
<p>The module is designed to offer students who have undertaken some previous study in the area of International Relations an introduction to the theories and concepts of international peacekeeping and armed humanitarian intervention. Although we explore peacekeeping as a phenomenon with a long historical lineage, we concentrate on its 'refinement' as an instrument of the United Nations in the period since 1945. The approach adopted is very much a political one - concerned with the international relations and diplomacy of conflict management. This is not a training course for conflict resolution on the ground, much less a military handbook.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N MacQueen			
Module teaching staff:	Dr N MacQueen			

IR3049 International History and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Tue			
<p>The study of international relations (IR) requires that students have an understanding of at least some of the literature and examples that are commonly used by international historians (IH). This necessity is due to the obvious historical roots of many of today's pressing problems in IR. This module will take a number of key themes (initially and for example), war, peace and empire, that have been often separately explored by IR and IH scholars and show how the two disciplines can reinforce and deepen the understanding of what we broadly call the 'international'. A series of case studies will be used, initially (and for example) that of the origins of the conflict in Palestine/ Israel; that of the origins of the Balkan conflicts of the 1990s, and; that of the roots of the decline of the British Empire in the period before, during and after the First World War. Each student will be expected to undertake historical research based on a use of secondary sources and also a study based on the use of primary, even archival sources.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A J Williams			
Module teaching staff:	Prof A J Williams			

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IR3050 State, Power, Crime				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr H Cameron			
Module teaching staff:	Dr H Cameron			

IR3051 International Relations Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Thu and 1.00 pm - 3.00 pm Thu			
<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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L Mills			
Module teaching staff:	Dr L Mills			

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IR3053 Peacebuilding and Post-Conflict Transition in Latin America			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	11.00 am 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, democratisation 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 BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr R Brett		
Module teaching staff:	Dr R Brett		

IR3054 Mapping the Boundaries of Emerging and Evolving Securities				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon 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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Donnelly			
Module teaching staff:	Dr F Donnelly			

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IR3055 International Relations and the Internet			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	2.00 pm Thu		
<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 BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr G Ramsay		
Module teaching staff:	Dr G Ramsay		

IR3057 Armaments and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	1.00 pm - 2.00 pm Thu			
<p>The goal of this module 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 module will first (weeks 2-5) examine broad theories about how the development of distribution of armaments affects the international state system. Then, we 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 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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M DeVore			
Module teaching staff:	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:	2017/8		
Planned timetable:	11.00 am - 12.00 noon Thu		
<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 BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr M DeVore		
Module teaching staff:	Dr M DeVore		

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IR3060 Rebellion and Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	1.00 pm Thu			
<p>Rebellion is the most prevalent form of conflict in the contemporary world. Massive protests, insurgencies, and civil wars bring with them the potential for transformative revolutions. Rebellions, however, also risk widespread violence and destabilisation, resulting in immense destruction for the societies consumed by them. This module takes an historic, comparative approach to understanding the causes, processes and consequences of rebellions and revolutions as important social phenomena that have been experienced across every region in the world. We will analyse the causes of rebellion, the dynamics of insurgency and counterinsurgency, and the outcomes of resistance.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Harkness			
Module teaching staff:	Dr K Harkness			

IR3064 Critical Terrorism Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.00 am - 11.00 am Mon or Tue			
<p>This module will introduce students to the main concerns raised by Critical Terrorism Studies. Working within the Critical Security Studies tradition, Critical Terrorism Studies argue that mainstream Terrorism Studies has not been open to new challenges and perspectives. As such, Terrorism Studies problematically reifies particular sites and structures of power. Because of this perspective, Critical Terrorism Studies poses several challenges to Terrorism Studies about how terrorism is defined and limited to particular actors. Thus, this module will explore these challenges, which include state terrorism, the discourse of radicalization, and the role of emotion before turning to the intended outcome of Critical Terrorism Studies scholarship: emancipatory practices.</p>				
Programme module type:	Optional for International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 11 weeks), 1-hour tutorial (x 10 weeks), 2 office consultative hours (x 12 weeks), 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 21 hours		Guided independent study: 279 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Gentry			
Module teaching staff:	Dr C Gentry			

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IR3065 Refugees and International Relations			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	1.00 pm Mon		
<p>While discourses of globalisation posit a "post-national" or "borderless" world and the withering of the nation-state, this is arguably not a condition that the 1 in every 140 people globally who are displaced would recognise. Refugees and other forced migrants raise important questions for dominant understandings of the state, security, sovereignty, citizenship, humanitarianism, intervention, and international regimes, among many others, in International Relations. This module introduces some of the complex issues surrounding refugees and forced migration in global politics today. While oriented toward the role that refugees and the refugee problem play in international relations, the module is inter-disciplinary in nature, drawing on historical, legal, sociological, anthropological, and philosophical works and debates. The primary goal of the module is for students to gain critical awareness of the role and nature of the refugee problem - as a legal, political and moral problem - in global politics. Students will gain an understanding of the history of the refugee problem, the practical functions and workings of the UN refugee system, the asylum process in the EU, and of emerging issues in refugee research.</p>			
Programme module type:	Optional for International Relations		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 10 weeks), 1-hour tutorial (x 10 weeks), 2 office consultative hours (x 12 weeks), 2 hours examination feedback in week 1 of following semester.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr N Saunders		
Module teaching staff:	Dr N Saunders		

IR3066 Emotional Encounters: Diplomacy, Power and Persuasion in World Politics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	3.00 pm Thu			
<p>As the world becomes increasingly inter-connected new concerns and issues crowd the international agenda and more and more actors can be seen to participate in international affairs. The management of internal and external affairs is becoming more complex, and with the technological revolution an increased focus on language, performance and 'reaching out' to different audiences. This module, in recognition of these trends, seeks to draw attention to and investigate these processes that could be said to be changing the face of diplomacy as we know it. It will explore a range of agents and tools associated with the practice of diplomacy, and draw on a variety of examples to illustrate the different themes and topics covered. One of the key premises of this module will be to highlight and consider the potential enabling as well as constraining effects of emotional dynamics in diplomatic interactions. By focusing on the changing face of diplomacy and the role of emotions in international relations it aims to expose students to two of the most exciting and rapidly expanding fields of enquiry in the discipline of IR.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR1005, IR1006, IR2005, IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 10 weeks), 1-hour tutorial (x 10 weeks), 2 office hours			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-Hour Written Examination = 100%			
Module coordinator:	Dr T Shepperd			
Module teaching staff:	Dr T Shepperd			

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IR3067 The International Criminal Court in World Politics			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	4.00 pm Tue		
<p>This module provides a detailed examination of the International Criminal Court, the first permanent global court charged with investigating and prosecuting the most serious international crimes. The ICC is both a legal institution composed of lawyers and judges and a political actor aiming to influence the behaviour of governments, militaries, and rebel groups. This complexity raises a number of practical challenges facing the Court. Who should face accountability for grave crimes? How can the pursuit of justice be reconciled with demands for peace and reconciliation, and when should one take precedence? And is criminal punishment even the most appropriate means of addressing grave violations of human rights? Through this module, students will gain a greater understanding of key features of international criminal law, the structure and status of the ICC, and will be challenged to apply their knowledge to contemporary problems facing the international criminal justice regime.</p>			
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 10 weeks), 1-hour tutorial (x 9 weeks) 2 consultation hours with Coordinator (x 12 weeks)		
	Scheduled learning: 19 hours	Guided independent study: 281 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr A Bower		
Module teaching staff:	Dr A Bower		

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IR3068 Christianity and World Politics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module explores the relationship between Christianity and international politics. After a brief exploration of some of the debates surrounding the study of religion and politics, it will examine some of the ways in which the Christian tradition has engaged with politics. We will then explore a range of cases from Europe, North and South America, and Africa, before turning to look at transnational Christian politics. The broad pattern will include lectures that offer broad overviews of the geographical regions or thematic concerns, and tutorials that pick up on narrower questions, including: relations with the state in the UK & Russia, the religious contributions to democratisation and the overthrow of authoritarian regimes in Latin America and Africa, the tensions between progressive and conservative Christian politics in all of these regions, and the role of transnational religious actors and their engagement with issues of war and peace, religious freedom, and sexual orientation.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Anderson			
Module teaching staff:	Prof J Anderson			

IR3070 Armed Conflict in Postcolonial Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon Wed			
<p>How can we categorise different types and dimensions of armed conflicts in postcolonial Africa? What are their underlying and proximate causes? And what can be done to resolve them and achieve lasting peace? These are the overarching questions that guide the module. Following a broad historical overview, it addresses the relative paucity of interstate and secessionist conflict while highlighting the abundance of external involvement. Then, the module turns to problems of governance, the motives of rebels, and the role that ethnicity and religion play in the outbreak and continuation of conflicts. The module concludes by investigating the promises and pitfalls of both peacemaking and peacekeeping. Each tutorial provides students with the opportunity to apply general insights from the week's lecture to a specific case, including some of Africa's most recent conflicts.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR1005, IR1006, IR2005, IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 11 weeks), 1-hour tutorial (x 10 weeks) 2 consultation hours with Coordinator (x 12 weeks)			
	Scheduled learning: 21 hours		Guided independent study: 279 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr H Tamm			
Module teaching staff:	Dr H Tamm			

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IR3071 Realism in International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm Mon			
<p>This module traces the genealogy of realism both as a theoretical approach in IR and as an ethico-political response to the challenges of modernity in the 20th century. From the continental roots of realism in German thought to E. H. Carr's peculiar realism and from Hans Morgenthau's tragic realism, the ethical realism of the English School and the Christian realists to the scientific realism of Kenneth Waltz and the American rationalists up to the debates on the failure of realism to predict the end of the Cold war and the recent revival of classical forms of realist thought, this module explores the multiple genealogies of realism in the semantic, social and political contexts which made their emergence possible. The module critically evaluates the role, impact and appeal of realist thought in IR and seeks to highlight its diverse and protean nature as well as its continued relevance in contemporary world politics.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture plus 1 x 1-hour tutorial. In order to ensure small groups for the tutorial discussions, the instructor will divide the class into multiple tutorial groups, each of which will meet each week during semester.			
	Scheduled learning: 22 hours		Guided independent study: 273 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr V Paipais			
Module teaching staff:	Dr V Paipais			

IR3072 New and emerging security threats in the Caucasus and Central Asia				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	TBC
Academic year:	2018/9			
Planned timetable:	TBC - Thu and Fri			
<p>This module will explore security threats in the Caucasus and Central Asia. The module will cover three Caucasian and five Central Asia states in order to reach a better understanding of the commonalities and differences across the two regions. After an introduction to key theoretical perspectives and topics in security studies, the module will examine specific threats and risks that are currently under-studied in the literature.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 11 weeks) and 1-hour tutorial (x10 weeks)			
	Scheduled learning: 21 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 = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 50%, Long Essay = 50%			
Module coordinator:	Dr A Kupatadze			
Module teaching staff:	Dr A Kupatadze, Dr M Fumagalli			

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IR3073 Dilemmas of International Order: Governing Conflict and Human Rights				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm Wed			
<p>This module focuses on contemporary international institutions aimed at addressing matters of pressing global concern. It is, most of all, concerned with the practical policy challenges of governance: what should be done to reduce violence and promote peace, justice, and human rights, and how can these goals be achieved in a world of finite resources and competing interests? The module begins by introducing the range of actors in global governance. We then reflect on major theoretical approaches concerning the origins and efficacy of global institutions, asking 'when do institutions matter, and how?' The second half of the module applies these analytic lenses to case studies including disarmament, humanitarian intervention, the International Criminal Court, and the human rights regime. Throughout, students are challenged to integrate theory and empirics to critically evaluate the utility of IR scholarship in understanding and responding to real world problems.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture plus 1 x 1-hour tutorial. In order to ensure small groups for the tutorial discussions, the instructor will divide the class into multiple tutorial groups, each of which will meet each week during semester.			
	Scheduled learning: 27 hours		Guided independent study: 268 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Bower			
Module teaching staff:	Dr A Bower			

IR3104 The International Relations of Post-Communist Central and Eastern Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	9.00 am - 10.00 am Tue			
<p>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.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof R Fawn			
Module teaching staff:	Prof R Fawn			

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IR3111 Asian Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	4.00 pm Tue			
<p>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.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P Lehr			
Module teaching staff:	Dr P Lehr			

IR3113 Gender and Generation				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm Fri			
<p>The incorporation of issues of gender into the prevailing international relations discourse changes the way in which international relations is thought about, and theorised. This module will examine the meaning of such change, and will also argue that, in a similar way, incorporating children into the established discourse may mean that traditional themes and constructs such as states, sovereignty, political identity, agency, power, representation, etc. are transformed. This module includes an examination of such issues as the use of child soldiers; women and warfare; childrens economic role; and political theory as it relates to the family.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A Watson			
Module teaching staff:	Prof A Watson			

IR3300 Conflict in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am Mon			
<p>This module examines conflict in the modern Middle East looking at the causes, development and consequences of different types of conflict in the region including interstate, civil war, ethnic, religious and terrorism. It examines state formation and the development of competing ideologies. The legacies of these processes are explored through case studies e.g. the Arab-Israeli conflict, Lebanon and Iraq. The rise of political Islam in the region impacts on state-society relations and both its militant and non-violent manifestations will be examined. The region has been characterised by authoritarian regimes and this legacy and the impact of the 2011 Uprisings will be explored including conflicts in Syria, Bahrain and Yemen. Developments within Shia Islam will be covered in relation to the Islamic Republic of Iran and its impact on regional security. The question of external intervention in the Middle East is also addressed in relation to Iraq post-2003 and the 2011 Arab Uprisings.</p>				
Programme module type:	Optional for International Relations, Middle East Studies and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006	Anti-requisite(s):	IR3102	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), The class will be divided into multiple tutorial groups to allow small group discussion. 2 hour examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:				
Module coordinator:	Dr F McCallum			
Module teaching staff:	Dr F McCallum			

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IR3301 Politics and State Formation in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 am 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, Middle East Studies and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006	Anti-requisite(s):	IR3109	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	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%			
Re-assessment pattern:				
Module coordinator:	Dr A Saouli			
Module teaching staff:	Dr A Saouli			

IR3302 Democracy and Revolution in North Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am Tue			
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, Middle East Studies and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Volpi			
Module teaching staff:	Dr F Volpi			

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IR3303 The Arab - Israeli Conflict				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am or 12.00 noon Tue			
This module is a primer for all students wishing to explore the complexities of the ArabIsraeli conflict from its origins to its recent evolution. The module analyses local, regional and international dimensions of the conflict, drawing upon historical and critical frameworks. The module addresses the themes of war, secular and religious ideologies, and the importance of history, identity and discourse in the conflict.				
Programme module type:	Optional for International Relations, Middle East Studies and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 11 weeks), 1 tutorial (x 10 weeks)			
	Scheduled learning: 23 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Gani			
Module teaching staff:	Dr J Gani			

IR4099 Honours Dissertation in International Relations				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am - 1.00 pm Fri			
The dissertation will be not more than 12,000 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 nine two-hour research seminars and five supervisory meetings of up to one hour. Eight one-hour tutorials (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. Optional for Joint Honours International Relations, International Relations and Modern Languages (two languages), Middle East Studies.			
Pre-requisite(s):	IR2005 and IR2006	Anti-requisite(s):	Any other Dissertation module	
Learning and teaching methods and delivery:	Weekly contact: 10 x 1-hour tutorial sessions, 10 x 2-hour research skills seminars, 5 x 1-hour individual consultation sessions with assigned supervisors. 1 x 1-hour information session in Semester 2 of the Junior Honours Year. Additional consultation hours with supervisor, tutor and the Dissertation Coordinator are also available.			
	Scheduled learning: 36 hours		Guided independent study: 564 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Literature Review (semester 1) = 15%, Dissertation (semester 2) = 85%			
Re-assessment pattern:	No Re-Assessment available			
Module coordinator:	Dr F Costa Buranelli			

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IR4401 Communication in International Relations			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
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 Optional for International Relations and BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006	Co-requisite(s):	ID4002
Learning and teaching methods and delivery:	Weekly contact: Independent work. 6 hours of essay supervision and 22 office/contact hours over the semester.		
	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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr F McCallum		
Module teaching staff:	Dr F McCallum		

IR4516 The International Relations of Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am Tue			
<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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof I C Taylor			
Module teaching staff:	Prof I C Taylor			

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IR4530 Genocide				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	3.00 pm Mon			
<p>This module provides students with a conceptual and historical overview of genocide from a broad interdisciplinary perspective. Drawing upon contributions from political science, international relations, history, philosophy, sociology, psychology and literature, the module examines a range of empirical case studies along with some of the historical and philosophical debates they have sparked. Topics to be addressed include definitions of genocide; the evolving international law of genocide; themes of memory, responsibility and denial; and mechanisms of justice and reconciliation.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Anti-requisite(s):	IR3050			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr H Cameron			
Module teaching staff:	Dr H Cameron			

IR4535 Theories of Friendship, Solidarity and Peace				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm Thu			
<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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Slomp			
Module teaching staff:	Dr G Slomp			

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IR4540 The Changing Character of War				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm Mon			
<p>The aim of this module is to discuss change and continuity in the theory and practice of war. The module is organised along historical instances and phases of war over the past two decades. Starting with the French Revolutionary and Napoleonic Wars, the module will consider major events in the history of war such as the two world wars and the Cold War. It discusses to what extent terrorism and humanitarian intervention present new forms of war. Each session will analyse change and continuity regarding four thematic areas: strategic thought and practice, technology, socio-political conditions and cultural representations of war. The module is intended to give students a nuanced overview of major developments in the theory and practice of war and hence to enable them to discuss contemporary security issues from a historically well-informed perspective.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L Middup			
Module teaching staff:	Dr L Middup			

IR4542 Gender and Terrorism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 - 4.00 pm Mon or 10.00 - 12.00 noon Tue			
<p>This module will familiarise students with how gender is a construction that privileges certain actors over and against others. Bluntly, gender, similarly to race and class, is a tool for the construction and maintenance of power. Therefore, this module aims to answer, 'how does Terrorism Studies scholarship privilege certain actors?' Beginning with the assumed primacy of the state, the students will deconstruct how Terrorism Studies' reliance upon the discourse of legitimacy and rationality denies agency to certain groups and actors. Students will then evaluate how such discourse impacts the scholarship and information regarding women who are involved in political violence.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280hours	
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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C E Gentry			
Module teaching staff:	Dr C E Gentry			

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IR4543 Activism and Resistance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester. Occasional film/video viewing.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A Watson			
Module teaching staff:	Prof A Watson			

IR4545 Indian Foreign Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon Mon			
<p>This module is designed to provide an analysis of the emergence of India within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive 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 twenty-first century.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester. Occasional film/video viewing.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Ogden			
Module teaching staff:	Dr C Ogden			

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IR4548 Force and Statecraft				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	1.00 pm Thu			
<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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Harkness			
Module teaching staff:	Dr K Harkness			

IR4552 The Politics of the Environment				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am Thu			
<p>The module provides students with an understanding of environmental discourses and covers key aspects of theory and practice. Students are introduced to a range of issues and will have an opportunity to explore and discuss these within small tutorial settings. The module will include a comparative element and will address timely issues such as climate change, biodiversity and water security. A distinct feature of this module will be the use of 'real world' student contributions: seminar papers, 'chaired' discussions and policy briefing essays.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Brown			
Module teaching staff:	Dr A Brown			

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IR4553 Europe, America and the Transatlantic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	4.00 pm Tue			
<p>This module will explore European and transatlantic security affairs using a variety of conceptual perspectives. The module will cover both contemporary and historical case studies in order to reach a better understanding of the nature of European and transatlantic security practices. After an introduction to central structures and topics in European and transatlantic security affairs, the module will examine specific topics that are currently under-researched in transatlantic security affairs.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Donnelly			
Module teaching staff:	Dr F Donnelly			

IR4554 Global Aesthetics and Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.00 am Wed			
<p>Political theory and practice have strong aesthetic dimensions. The importance of sensory registers and emotional experience to how power operates is being taken increasingly seriously by scholars and practitioners. This course unpacks the relationship between politics and aesthetics by applying it to various cultures globally and across different arts sectors, including film, exhibitions, photography and sculpture. Students will be encouraged to develop their own aesthetic portfolios concentrating on particular art forms that demonstrate the ways in which aesthetics and politics affect each other. The module has both strong theoretical and practical content and is assessed through a range of methods and technologies.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: TO BE CONFIRMED.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 0%, Coursework = 65%			
	As used by St Andrews: 3-hour Written Examination = 35%, Coursework = 65%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof S N Cummings			
Module teaching staff:	Prof S N Cummings			

IR4555 Music, Politics and International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon - 2.00 pm Mon			
<p>This module explores the complex relationship between the arts and politics, focusing on the various ways in which political thinkers and politicians have viewed music, sought to control it or use it to blunt or effect political change. Though very few musicians write explicitly political music, even non-political works can serve to represent or shape group identity, as well as shaping views of the 'other'; it can be used to mobilise groups to political ends (successfully or otherwise); or used as a means of protest and resistance and to subvert political orders. Equally, it can be used for ends that the author did not intend - witness the playing of Bach in Nazi death camps or Ronald Reagan's use of 'Born in the USA'. In this module we will explore the multiple meanings and readings of a range of works relating to some of the following issues: nations and nationalism, the state, political mobilisation and resistance, and questions of race, gender and sexuality, class, war and political violence. Students taking this class will need to be open to a variety of mostly Western musical forms, and composers/performers from Mozart to Plan B.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 19 hours		Guided independent study: 281 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Anderson			
Module teaching staff:	Prof J Anderson			

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IR4559 Dilemmas of International Governance: Conflict and Human Rights				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm Tue			
<p>This module focuses on recent attempts to create institutions - norms, rules, and organisations - aimed at addressing matters of pressing global concern. It is concerned with the practical policy challenges of contemporary governance: what should be done to reduce violence and promote peace, justice, and human rights, and how can these goals be achieved in a world of finite resources and competing interests? The module begins by introducing the range of actors in global governance, including states, intergovernmental organisations, bureaucracies, judges, and nongovernmental organisations. We then reflect on major theoretical approaches concerning the origins and efficacy of global institutions, asking 'when do institutions matter, and how?' The second half of the module applies these analytic lenses to key case studies including disarmament, humanitarian intervention, the International Criminal Court, and the human rights regime.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006	Anti-requisite(s):	IR4514	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 11 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 21 hours		Guided independent study: 279 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Bower			
Module teaching staff:	Dr A Bower			

IR4560 Faith, Politics, and War: The Augustinian Tradition in IR				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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 primarily 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 worldwide 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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2006	Anti-requisite(s):	IR3061	
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture and 1-hour tutorial.			
	Scheduled learning: 22 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr V Paipais			
Module teaching staff:	Dr V Paipais			

IR4561 Security as Ethics: Rethinking the Global Polity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm Tue			
<p>As the world becomes increasingly interconnected, and faced with new types of threats and insecurities, questions of ethics or how we should act, which rely on some notion of who 'we' are, become more complex. This module seeks to analyse a number of seemingly intractable global security problems, relating, among others, to health, the environment, migration and political violence, from a different angle and to explore the implications for how we should act in the world to ensure a secure and sustainable future. The module will be structured around Burke and Nymans, eds., Ethical Security Studies (2016) and a range of complementary texts.</p>				
Programme module type:	Optional for International Relations and BA Int Hons International Relations			
Pre-requisite(s):	IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 11 weeks), 1-hour tutorial (x 9 weeks) 2 consultation hours with Coordinator (x 12 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof K Fierke			
Module teaching staff:	Prof K Fierke			

IR4562 The Political Life of Objects				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Wed			
<p>Objects appear and disappear in the political lives of nations and people but are rarely analyzed in detail. Why do nations argue about historical artefacts? Why do groups tear down monuments? How do functional things such as bridges acquire historical value? When do everyday objects acquire political meaning? The course argues that politics need to incorporate the material into its analysis and the study of objects in turn needs to take more seriously their political content. This content is not essentialised but is forever changing in relation to its subject and interpreter. The course encourages students to take a quite different range of objects, from the everyday examples of cigarettes or the telephone to ones of practical use such as bridges and canal pipes to those of aesthetic value such as a painting through to ones of overtly political ideology, such as public monuments. The module is assessed through a variety of innovative techniques and approaches.</p>				
Programme module type:	Optional for International Relations and BA Int Hons International Relations			
Pre-requisite(s):	IR1005, IR1006, IR2005, IR2006			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks), 2 hours of seminars over the semester			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100% (including 30% In-Class Test)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof S Cummings			
Module teaching staff:	Prof S Cummings			

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IR4563 Rebels, Terrorists, Militias: The Comparative Analysis of Armed Groups			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	12.00 noon Wed		
<p>This module introduces students to the comparative analysis of armed groups, such as the Taliban and the so-called Islamic State. The first part addresses important conceptual issues, including the differences between "rebel groups," "terrorist organisations," and "militias." The second part then brings together the study of these different types of groups by investigating the organisational challenges that they all face to varying degrees: recruiting and controlling their members, governing civilians under their control, and using violence effectively. The third part focuses on alliance politics both among armed groups and between them and sovereign states. The fourth part analyses different outcomes, asking why some groups remain cohesive while others split into rival organisations, and why some groups succeed whereas others fail. In each tutorial, students apply conceptual and theoretical insights from the lecture by comparing two or more different groups from the same country.</p>			
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.		
	Scheduled learning: 20 hours	Guided independent study: 280 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr H Tamm		
Module teaching staff:	Dr H Tamm		

IR4564 Strategic Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Fri			
<p>The aim of this module is to discuss the major shifts and developments in modern strategic thought and practice, as well as some of the powerful factors that determined and are still determining military possibilities in the modern era. We will examine historical case studies and the reasons for changes in the use and application of military force along two axes: chronological and thematic. Starting from the Second World War, we will analyse the evolution of strategic thought and practice in response to political, technological, cultural and other developments. The combination of historical analysis and thematic issues will allow students to develop a more comprehensive picture of the evolution of strategy as well as better understanding and informed critique of major strategic trends and challenges of recent and contemporary history.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 hour lectures (x 11 weeks) and 1 tutorial (x 10 weeks), office hours, review of essay plans, instructions on essays, and individual feedback sessions			
	Scheduled learning: 21 hours		Guided independent study: 279 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Schiepers			
Module teaching staff:	Dr S Schiepers			

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IR4565 Contemporary Political Theory: from revolution to recognition				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Tue or Wed			
<p>This module explores the political and social thought of the twentieth century - a century of turmoil and paradox. Rather than the stereotype image of ivory-tower intellectuals unconnected to 'the real world', the thinkers examined in this module were (and are) thoroughly immersed in the unfolding of some of the twentieth century's formative events - from the rise of Communism, to war, occupation and genocide, decolonisation, and the civil rights movement - and their work is dedicated to understanding these events and resolving the concrete political problems that these events revealed or created. Aiming to bridge the 'theory-practice' divide, the module examines how these thinkers grappled with power, class, race, gender, and culture, and in doing so contested the orthodoxies of politics and political theory, and have provided inspiration and critical tools for political action moving forward.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 10 weeks). 2-hour film/video viewing (x 3 weeks) 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 26 hours		Guided independent study: 274 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N Saunders			
Module teaching staff:	Dr N Saunders			

IR4566 Comparative regionalism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 pm Tue			
<p>The module offers an investigation of different processes of regionalism across the globe, with regionalism understood as the creation of territorially contiguous patterns of cooperation in different areas of international relations that may or may not be supported by narratives of common identities. While much of the discipline still conforms to a Euro-centric vision of regionalism and regional integration, the module deliberately explores non-European experiences and developments of regional cooperation. Different aspects of regionalism and the creation of regional institutions will be analysed and discussed with respect to Africa, Latin America, the Post Soviet Space, East Asia and South East Asia. Attention is devoted to concrete issues of cooperation and conflict in these specific regions, to the institutional characteristics of their regional organisations and to the interpretations that international norms such as sovereignty are conceptualised and 'localised'.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 11 weeks) and 1-hour tutorial (x 10 weeks)			
	Scheduled learning: 21 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 = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Buranelli			
Module teaching staff:	Dr F Buranelli			

IR4567 The International Criminal Court in World Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	4.00 pm Tue			
<p>This module provides a detailed examination of the International Criminal Court, the first permanent global court charged with investigating and prosecuting the most serious international crimes. The ICC is both a legal institution composed of lawyers and judges and a political actor aiming to influence the behaviour of governments, militaries, and rebel groups. This complexity raises a number of practical challenges facing the Court. Who should face accountability for grave crimes? How can the pursuit of justice be reconciled with demands for peace and reconciliation, and when should one take precedence? And is criminal punishment even the most appropriate means of addressing grave violations of human rights? Through this module, students will gain a greater understanding of key features of international criminal law, the structure and status of the ICC, and will be challenged to apply their knowledge to contemporary problems facing the international criminal justice regime.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture plus 1 x 1-hour tutorial. In order to ensure small groups for the tutorial discussions, the instructor will divide the class into multiple tutorial groups, each of which will meet each week during semester.			
	Scheduled learning: 22 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Bower			
Module teaching staff:	Dr A Bower			

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IR4568 International Relations of Energy and the Environment				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	11.00 am Wed			
<p>This module provides students with an understanding of key issues in energy studies and environmental politics and their role on international relations in general, and IR as a discipline. The module's main objectives are to provide students with a strong understanding of the evolving nature of the international security agenda and especially the theoretical debates surrounding environmental, energy, food, and water security; the intertwined nature of new security challenges; link debates in IR on energy and the environment to related conversations in cognate fields (environmental sciences and policy; public policy; political geography; anthropology); potential conflicts over natural resources access and management across scales; and the role of governance and policy in understanding natural resource conflicts in a trans-boundary context. Additional themes covered include the 'shale revolution', energy transitions, global environmental and energy governance, resource merc</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 11 weeks) plus 1 x 1-hour tutorial (x 10 weeks). In order to ensure small groups for the tutorial discussions, the instructor will divide the class into multiple tutorial groups, each of which will meet each week during semester.			
	Scheduled learning: 21 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Fumagalli			
Module teaching staff:	Dr M Fumagalli			

IR4569 Geopolitics of Energy in the Caspian Region				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am Wed			
<p>The module discusses the links between energy and international politics and security in and around the Caspian Region. The module has three main objectives. First, it familiarises students with the main trends, issues and actors in regional and global energy markets. Next, it focuses on energy security by examining similarities and differences in the areas of water, minerals, oil and gas markets in the Caspian region. Lastly, it discusses a select number of case studies illustrating instances of cooperation and conflict over natural resources, issues in energy governance, pipeline diplomacy, China's reliance on resource mercantilism, the rise of resource nationalism in Russia and the Central Asian republics, as well as including environmental challenges in the Aral Sea basin.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 11 weeks) and 1-hour tutorial (x 10 weeks)			
	Scheduled learning: 21 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: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Fumagalli			
Module teaching staff:	Dr M Fumagalli			

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IR4570 Everyday Life and Global Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The study of international relations has predominantly focused on supposedly 'official' actors, sites and practices. But what about 'ordinary' individuals? What about their 'mundane' practices and quotidian behaviours? How do their everyday lives fit into IR? This module explores how everyday life and global politics are co-constitutive. Drawing on a range of interdisciplinary theoretical perspectives, students will critically interrogate how it is in the everyday that the global is situated and produced. Whether travel, leisure, or popular culture, this module reveals how these everyday objects, structures and practices mutually constitute global power relations that are messy, complex and bolster often problematic logics of militarisation, gender, race, class, and so on. This module will therefore introduce students to (and encourage them to engage in) alternative and creative ways of thinking, and also alternative and creative sites and forms of scholarship, learning and assessment.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 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: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L Mills			
Module teaching staff:	Dr L Mills			

IR4600 Ideologies and Social Movements in the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon Tue			
<p>This module examines prominent ideologies in the modern history of the Middle East, and the role ideas play in the political mobilisation of society. The module draws particular attention to anti-colonial, nationalist, religious and liberal social movements; it compares the formation, implementation and evolution of the different sets of ideologies, and the relationships between the social movements and the state. The module aims to a) deepen students' understanding of ideologies in the region, beyond culturalist and power-political frameworks, and b) to highlight the important role of societal forces in Middle East politics.</p>				
Programme module type:	Optional for International Relations, Middle East Studies and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Gani			
Module teaching staff:	Dr J Gani			

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IR4601 Political Order and Violence in the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am Tue			
This module examines the causes and consequences of political order and violence in the Middle East. What constitutes a political order? Why and how are political orders established? What role does violence play in constituting political orders? Why and how does violence ensue with the breakdown of political orders? Drawing on IR, Sociological, and State-formation theories, we will examine different episodes of order and violence in contemporary Middle East politics: from the collapse of the Ottoman Empire to the latest Arab Uprisings, looking at colonial orders, regime-society violence, violent resistance against occupation, and civil wars.				
Programme module type:	Optional for International Relations, Middle East Studies and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultative hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Saouli			
Module teaching staff:	Dr A Saouli			

IR4602 International Relations of the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006		Anti-requisite(s):	IR4507
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof R Hinnebusch			
Module teaching staff:	Prof R Hinnebusch			

IR4606 Propaganda, Persuasion and Information War in the Middle East			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	2.00 pm Fri		
This module aims to introduce students to the ways in which great powers, regional powers and regional non-state actors have used propaganda and strategic communications to advance their interests in the Middle East region. The focus will be on events since the turn of the millennium, but the module will go back to the mid-twentieth century to discuss the development of regional media and propaganda. The module will also focus on teaching students to critically analyse specific media and propaganda texts.			
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations and for Middle East Studies		
Pre-requisite(s):	IR2005 and IR2006		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lectures (x 11 weeks) and 1-hour tutorials (x 10 weeks)		
	Scheduled learning: 21 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: Coursework = 100%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr G Ramsay		
Module teaching staff:	Dr G Ramsay		

School of Management

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Management (MN) modules

MN3101 Corporate Finance and Control			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
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.		
Pre-requisite(s):	MN2001 and MN2002	Required for:	MN3116
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 9 weeks) and 2 optional consultative hours (x 10 weeks)		
	Scheduled learning: 29 hours	Guided independent study: 171 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr L Nguyen		
Module teaching staff:	Dr L Nguyen		

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MN3102 Organisation Studies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 4 weeks) and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Greig			
Module teaching staff:	Dr G Greig, TBC			

MN3116 Financial Markets and Investments				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D Oto-Peralias			
Module teaching staff:	Dr D Oto-Peralias			

MN3126 International Business				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	MN2001 and MN2002	Anti-requisite(s):	MN4233	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Brown			
Module teaching staff:	Dr R Brown			

MN3201 Research Methods: 1				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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			
Required for:	MN4301			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 3 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 23 hours		Guided independent study: 177 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Prof H T O Davies			
Module teaching staff:	Prof H T O Davies, TBC			

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MN3202 Research Methods: 2				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 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 lectures (x 5 weeks) and at least 4 hours of supervisory meeting)			
	Scheduled learning: 14 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%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	TBC			
Module teaching staff:	Team taught			

MN4100 Contemporary Issues in Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on a Management Honours programme.			
Planned timetable:	To be arranged.			
This module provides a learning experience in which management students (on the single and joint honours pathways) can: reflect back on all the modules they have taken as part of their studies at the University and integrate insights from this prior study; understand and respond to current and likely future challenges that will face them in the near and intermediate future as managers and citizens; and develop skills for being a contributor to responsible enterprise in a number of operational settings.				
Programme module type:	Compulsory for all Management degrees, Management Science			
Pre-requisite(s):	MN2001 and MN2002 and Entry to Senior Honours			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 7 weeks), 1-hour seminar (x 11 weeks), 2 optional consultative hours (x 11 weeks)			
	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%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Prof J Bebbington			
Module teaching staff:	Team Taught			

MN4211 International Marketing				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 10 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 168 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Khalik			
Module teaching staff:	Dr M Khalik			

MN4213 Human Resource Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 24 hours		Guided independent study: 176 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S A Chillias			
Module teaching staff:	Dr S A Chillias			

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MN4214 Management of Change				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof K Ball			
Module teaching staff:	Prof K Ball			

MN4223 International Banking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am - 1.00 pm Fri			
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.				
Programme module type:	Optional for all Management degrees, Management Science			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Wilson			
Module teaching staff:	Prof J Wilson			

MN4227 Corporate Social Responsibility, Accountability and Reporting				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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. Optional for Sustainable Development.			
Pre-requisite(s):	EITHER both MN2001 and MN2002 OR SD2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 11 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Prof Ferguson			
Module teaching staff:	Prof Ferguson			

MN4236 Sociology of Finance				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>In the wake of the global financial meltdown, scholars and professionals alike struggle to understand the causes of the collapse. A sociology of financial markets offers unique insights here. This module will provide a broad introduction to the sociology of finance, including: the research field and its roots in science studies; the architecture and technologies of markets; the role and importance of calculation; the chicken-and-egg problem of economic theory and practice; the specific practices of measurement and calculation that precipitated the crisis; and alternative financial perspectives, such as that offered by Islamic finance. Students will develop a deep understanding of the mechanisms that power financial markets and their relevance to the global economy.</p>				
Programme module type:	Optional for all Management degrees, Management Science			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P J Roscoe			
Module teaching staff:	Dr P J Roscoe			

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MN4238 Sustainable Development and Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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. Optional for Sustainable Development.			
Pre-requisite(s):	EITHER both MN2001 and MN2002 OR SD2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 171 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Russell			
Module teaching staff:	Team taught			

MN4241 Knowledge Work: Practice and Context				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Dr C Akinci			
Module teaching staff:	Dr C Akinci			

MN4242 Advertising and Marketing Communications				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
Advertising has an established presence in developed economies and is a key aspect of companies' marketing communications programmes. The module will extend your knowledge of this key marketing function by developing your understanding of advertising as an element in the integrated marketing communications mix and how the advertising process is practiced and managed.				
Programme module type:	Optional for all Management degrees			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 171 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Mr W Barlow			
Module teaching staff:	Mr W Barlow			

MN4243 Philanthropy and Philanthropreneurs: the business of doing good				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
Philanthropy is undergoing a renaissance. From Bill Gates to George Soros, from the Rockefeller Foundation in the US to the Bharti Foundation in India, philanthropists and philanthropic foundations are taking an increasingly active role in shaping society and using their private resources for public benefit and social change. But what motivates business leaders to act as philanthropists? How can we understand philanthropic organisations and their role in society? What, if any, is the impact of philanthropic activities on society? How are business models and ideas changing philanthropy? This module critically examines and reviews the philanthropic field, its nature, characteristics, drivers and activities.				
Programme module type:	Optional for all Management degrees			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 seminar (x 5 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 25 hours		Guided independent study: 175 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T Jung			
Module teaching staff:	Dr T Jung			

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MN4244 Behavioural Decision Making				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module explores the problems of decision making and judgment in leadership contexts. It is set around a collection of stories and cases, meant to vividly illustrate important and challenging decision scenarios. Each of the scenarios is examined with theories and concepts from social/cognitive psychology. The purpose of the module is to provide students with opportunity to critically examine the 'intuitive' vs. 'rational' course of action in scenarios that involve goal-setting, uncertainty, delayed gratification, and "tragic trade-offs." Students will be equipped to identify judgmental biases and to reason about ways to deal with these.</p>				
Programme module type:	Optional for all Management degrees			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 seminar (x 10 weeks), and 2 optional consultative hours (x 10 weeks)			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C Akinci			
Module teaching staff:	Dr C Akinci			

MN4245 Leadership Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students on the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>Drawing on current academic debates, examples of leadership challenges from practice and students' own experiences this module examines how leaders can be developed (by themselves and others) to address evolving strategic contexts and emerging patterns of organisation in the private, public and third sector. Focussing not just on the being and doing of leadership, but also on the becoming the module aims to: - develop students' critical understanding of current leadership theory and practice;</p> <ul style="list-style-type: none"> - provide opportunities for students to construct and interpret leadership development experiences; - support students in developing their effectiveness in a variety of leadership contexts where they may or may not have formal authority. 				
Programme module type:	Optional for all Management degrees			
Pre-requisite(s):	MN3102, MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) 1 seminar (x 8 weeks), 1 practical class (x 6 weeks) and 3 optional consultative hours (x 10 weeks)			
	Scheduled learning: 34 hours		Guided independent study: 166 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Romenska			
Module teaching staff:	Dr S Romenska			

MN4263 Entrepreneurship and Small Business Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures (x 9 weeks) and a further 5 hours of tutor contact, and 2 optional consultative hours (x 10 weeks)			
	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%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Mr C Lovatt			
Module teaching staff:	Mr C Lovatt			

MN4266 Non Governmental Organisations (NGOs): Contexts, Contributions, and Challenges				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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. Optional for Sustainable Development.			
Pre-requisite(s):	MN2001 and MN2002			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 3 x 1-hour workshops, and 2 optional consultative hours (x 11 weeks)			
	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%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Dr E Burt			
Module teaching staff:	Dr E Burt			

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MN4268 Equality and Diversity in Organisations			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Planned timetable:	To be arranged.		
<p>This module explores Equality and Diversity issues in the context of a range of organisations. We will first develop a clear understanding of the legal framework within which Equality and Diversity issues exist in the UK and the range of E&D issues we will explore including those related to gender, age, disability, and ethnicity. We will explore the individual and group processes which frame the utilisation of stereotypes within organisations and how such devices can produce bias, prejudice and discrimination. We will then examine the relationship between Equality and Diversity issues and organisational culture and sub-culture, organisational success and failure, individual and group performance, and finally, we will explore mechanisms for addressing and managing Equality and Diversity challenges. Students will achieve a comprehensive and deep understanding of Equality and Diversity issues, challenges and initiatives by the end of the module.</p> <p>A range of theoretically-focused and empirically-focused academic reading will frame students' developing understanding of the key issues explored. Moreover, materials will be used throughout to concretise and contextualise students' understanding of the issue explored. These include developed scenarios, case studies, film clips and extended film viewings.</p>			
Programme module type:	Optional for all Management degrees, Management Science.		
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks) 1-hour seminars (x 10 weeks), and 4 optional consultative hours (x 12 weeks)		
	Scheduled learning: 30 hours	Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%		
Module coordinator:	Prof R Woodfield		
Module teaching staff:	Prof R Woodfield, Dr B Bratanova		

MN4301 Management Project				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
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/)				
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: 2 hours and at least 6 hours of supervisory meetings			
	Scheduled learning: 8 hours		Guided independent study: 192 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project report / dissertation = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Dr G Greig			
Module teaching staff:	Team taught			

MN4310 Scenario Thinking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2018/9			
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			
Pre-requisite(s):	MN2001 and MN2002	Anti-requisite(s):	MN4225	
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 6 weeks) and 2 tutorials (x 6 weeks), and 3 optional consultative hours (x 6 weeks)			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Prof B MacKay			
Module teaching staff:	Prof B MacKay			

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MN4311 Dynamic Strategic Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all Management degrees			
Pre-requisite(s):	MN2001 and MN2002	Anti-requisite(s):	MN4203	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof B Mackay			
Module teaching staff:	Prof B Mackay			

School of Mathematics & Statistics

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Mathematics & Statistics (MT) modules

MT3501 Linear Mathematics 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu		
This module continues the study of vector spaces and linear transformations begun in MT2501. It 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 include: diagonalisation and the minimum polynomial; Jordan normal form; inner product spaces; orthonormal sets and the Gram-Schmidt process; adjoint and self-adjoint operators.			
Programme module type:	Compulsory for all MMath programmes, BSc Statistics, BSc joint Honours Statistics programmes, MPhys Mathematics and Theoretical Physics and MPhys Theoretical Physics. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.		
Pre-requisite(s):	MT2001 or MT2501		
Required for:	MT4003, MT4111, MT4112, MT4501, MT4513, MT4519, MT4607, MT4608, MT4614, MT5827		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).		
	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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr J D Mitchell		
Module teaching staff:	Dr J D Mitchell, Dr L S Theran		

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MT3502 Real Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Mon (even weeks), Tue & Thu			
This module continues the study of analysis begun in the 2000-level module MT2502 Analysis. It considers further important topics in the study of real analysis including: integration theory, the analytic properties of power series and the convergence of functions. Emphasis will be placed on rigorous development of the material, giving precise definitions of the concepts involved and exploring the proofs of important theorems. The language of metric spaces will be introduced to give a framework in which to discuss these concepts.				
Programme module type:	Compulsory for MMath Mathematics, Applied Mathematics and Pure Mathematics programmes Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2502			
Required for:	MT4004, MT4111, MT4501, MT4513, MT4519, MT5825, MT5830			
Learning and teaching methods and delivery:	Weekly contact: 2.5-hours of 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 = 90%, Class Test = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J M Fraser			
Module teaching staff:	Dr J M Fraser, TBC			

MT3503 Complex Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
This module aims to introduce students to analytic function theory and applications. The topics covered include: analytic functions; Cauchy-Riemann equations; harmonic functions; multivalued functions and the cut plane; singularities; Cauchy's theorem; Laurent series; evaluation of contour integrals; fundamental theorem of algebra; Argument Principle; Rouché's Theorem.				
Programme module type:	Compulsory for MMath Applied Mathematics, MMath Mathematics, and MMath Pure Mathematics. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2502 or MT2503 or MT2001			
Required for:	MT4005, MT4111, MT4112, MT4501, MT4513, MT4519, MT4608, MT5802			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 34 hours		Guided independent study: 116 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Quick			
Module teaching staff:	Dr M Quick			

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MT3504 Differential Equations				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
<p>The object of this module is to provide a broad introduction to analytical methods for solving ordinary and partial differential equations and to develop students' understanding and technical skills in this area. This module is a prerequisite for several other Honours options. The syllabus includes: existence and uniqueness of solutions to initial-value problems; non-linear ODE's; phase-plane analysis; Green's functions for ODE's; Sturm-Liouville problems; first order PDE's; method of characteristics; classification of second order linear PDE's; method of separation of variables; characteristics and reduction to canonical form.</p>				
Programme module type:	Compulsory for MMath Applied Mathematics, MMath Mathematics, MMath Pure Mathematics, MPhys Mathematics and Theoretical Physics. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2001 or MT2503			
Required for:	MT3506, MT4005, MT4111, MT4112, MT4501, MT4507, MT4508, MT4509, MT4510, MT4511, MT4513, MT4519, MT4551, MT4552, MT4608, MT5852			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 examples class (week 2 - 11).			
	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%)			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A L Wilmot-Smith			
Module teaching staff:	Dr A L Wilmot-Smith, Prof D G Dritschel			

MT3505 Algebra: Rings and Fields				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Mon (odd weeks), Wed & Fri			
<p>This module continues the study of algebra begun in the 2000-level module MT2505 Abstract Algebra. It places emphasis on the concept of a ring and their properties, which give insight into concepts of factorisation and divisibility. Important examples such as polynomial rings will be used to motivate and illustrate the theory developed.</p>				
Programme module type:	Compulsory for MMath Pure Mathematics Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2505	Anti-requisite(s):	MT4517	
Required for:	MT4111, MT4501, MT4519, MT5823, MT5827, MT5836			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr S Huczynska			

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MT3506 Techniques of Applied Mathematics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	12.00 noon Mon (odd weeks), Wed & Fri		
Differential equations are of fundamental significance in applied mathematics. This module will cover important and common techniques used to solve the partial differential equations that arise in typical applications. The module will be useful to students who wish to specialise in Applied Mathematics in their degree programme.			
Programme module type:	Compulsory for MMath Applied Mathematics Optional for all other undergraduate programmes in the School of Mathematics & Statistics.		
Pre-requisite(s):	MT2506 and MT3504	Anti-requisite(s):	MT3601
Required for:	MT4111, MT4501		
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of 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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr R K Scott		
Module teaching staff:	Dr R K Scott		

MT3507 Mathematical Statistics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	11.00 am Mon (odd weeks), Wed & Fri		
Together with MT3508, this module provides a bridge between second year and Honours modules in statistics. It will provide students with a solid theoretical foundation on which much of more advanced statistical theory and methods are built. This includes probability generating functions and moment generating functions, as well as widely used discrete distributions (binomial, Poisson, negative binomial and multinomial) and continuous distributions (gamma, exponential, chi-squared, beta, t-distribution, F-distribution, and multivariate normal). It will also provide a foundation in methods of statistical inference (maximum likelihood and Bayesian) and model selection methods based on information theory (AIC and BIC).			
Programme module type:	Compulsory for BSc/MA Statistics degrees (both single and joint Honours) and for MMath Statistics Optional for all other undergraduate programmes in the School of Mathematics & Statistics.		
Pre-requisite(s):	MT2508	Anti-requisite(s):	MT3606
Required for:	MT4501, MT4531, MT4537, MT4606, MT4609, MT5701, MT5751		
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of 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 = 90%, Class Test = 10%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof S T Buckland		
Module teaching staff:	Prof S T Buckland		

MT3508 Applied Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon Mon (even weeks), Tue & Thu			
<p>Together with MT3507, this module provides a bridge between second year and Honours modules in statistics. It deals with the application of statistical methods to test hypotheses and draw inferences from data. This includes a number of nonparametric methods and statistical tests (permutation and randomization tests, goodness-of-fit tests and tests of independence). Inference methods include model fitting by least squares and maximum likelihood, and variance estimation by means of the information matrix and by bootstrap. Applications include multiple regression, analysis of variance, the general (normal) linear model and an introduction to generalized linear models and generalized additive models.</p>				
Programme module type:	Compulsory for BSc/MA Statistics degrees (both single and joint Honours) and for MMath Statistics Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2508	Anti-requisite(s):	MT3606	
Required for:	MT4501, MT5751			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of 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 (Project) = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D L Borchers			
Module teaching staff:	Prof D L Borchers			

Changes to MT3508 between 2017/8 and 2018/9
also see next page

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MT3508 Applied Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2018/9			
Planned timetable:	12.00 noon Mon (even weeks), Tue & Thu			
<p>Together with MT3507, this module provides a bridge between second year and Honours modules in statistics. It deals with the application of statistical methods to test hypotheses and draw inferences from data. This includes a number of nonparametric methods and statistical tests (goodness-of-fit tests and tests of independence). Inference methods include model fitting by least squares and maximum likelihood, and variance estimation by means of the information matrix and by bootstrap. Applications include multiple regression, analysis of variance, the general (normal) linear model and an introduction to generalized linear models.</p>				
Programme module type:	Compulsory for BSc/MA Statistics degrees (both single and joint Honours) and for MMath Statistics Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2508	Anti-requisite(s):	MT3606	
Required for:	MT4501, MT5751			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of 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 (Project) = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D L Borchers			
Module teaching staff:	Prof D L Borchers			

MT3802 Numerical Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
<p>The module will introduce students to some topics in numerical analysis, which may include methods of approximation, iterative methods for solving systems of linear equations, numerical techniques for differential equations.</p>				
Programme module type:	Optional for all programmes in the School.			
Pre-requisite(s):	MT2001 or MT2501	Required for:	MT5806	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A P Naughton			
Module teaching staff:	Dr A P Naughton			

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MT3832 Mathematical Programming				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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:	Compulsory for all single and joint Honours BSc Management Science degree programmes Optional for all programmes in the School			
Pre-requisite(s):	MT2001 or MT2501 or (MT1002 and MN2002)			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papathomas			
Module teaching staff:	Dr M Papathomas, TBC			

MT3852 Automata, Languages and Complexity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Not available to Joint Honours Mathematics and Computer Science students.			
Planned timetable:	10.00 am Mon (even weeks) and 2.00 pm - 4.00 pm Mon			
This module begins with finite state machines, context-free grammars and big-O notation. 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 introduction to practical complexity.				
Programme module type:	Optional to all programmes in the School of Mathematics & Statistics - except Computer Science - Mathematics joint Honours			
Pre-requisite(s):	MT2504 or ((CS2001 or CS2101) and CS2002)	Anti-requisite(s):	CS3052	
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures (x 11 weeks), .5-hour tutorial (x 10 weeks)			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C Roney-Dougal			
Module teaching staff:	Dr C Roney-Dougal, Dr S Sarkar			

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MT4003 Groups			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2017/8 & 2018/9		
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 MMath Pure Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 are compulsory for MMath Mathematics. Optional for all other programmes in the School.		
Pre-requisite(s):	MT3600 or (MT2002 and MT3501) or MT2505		
Required for:	MT5823, MT5824, MT5827		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11).		
	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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr M R Quick		
Module teaching staff:	Dr M R Quick		

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MT4004 Real and Abstract Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
<p>This module continues the development of real analysis that was begun in MT2502 and continued through MT3502. Topics covered will include limits and continuity in metric spaces, differentiation in higher dimensions and the theoretical underpinning of Fourier series. This module will present some of the highlights of the study of analysis, such as Baire's Category Theorem, the Contraction Mapping Theorem, the Weierstrass Approximation Theorem, and the Inverse Function Theorem.</p>				
Programme module type:	Compulsory for M.Math. Pure 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):	MT3502			
Required for:	MT4526, MT5825, MT5830			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof L Olsen			
Module teaching staff:	Prof L Olsen			

MT4005 Linear and Nonlinear Waves				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
<p>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.</p>				
Programme module type:	Compulsory for MMath Applied Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	(MT2003 or MT2506 or PH3081) and (MT3503 or MT3504)			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A N Wright			
Module teaching staff:	Dr A N Wright			

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MT4111 Symbolic Computation			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2018/9		
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri		
<p>This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation 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 computer is not intelligent; 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 MMath Applied Mathematics and MMath Pure Mathematics</p> <p>At least one of MT3607, MT4111, MT4113 and MT5611 compulsory for MMath Mathematics</p> <p>At least one of MT3607, MT4111 and MT4113 compulsory for BSc/MA Mathematics and BSc/MA Statistics</p> <p>Optional for all other programmes in the School.</p>		
Pre-requisite(s):	Any of MT3501 - MT3506	Anti-requisite(s):	MT5611
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11)		
	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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr J D Mitchell		
Module teaching staff:	Dr J D Mitchell, Dr C M Roney-Dougal, Dr L Theran		

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MT4112 Computing in Mathematics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
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 MMath Applied Mathematics and MMath Pure Mathematics At least one of MT3607, MT4111, MT4113 and MT5611 compulsory for MMath Mathematics At least one of MT3607, MT4111 and MT4113 compulsory for BSc/MA Mathematics and BSc/MA Statistics 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 (weeks 1 - 10).		
	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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof D H Mackay		
Module teaching staff:	Prof D H Mackay, Dr T Elsdon		

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MT4113 Computing in Statistics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	12.00 noon Mon (odd weeks) and Wed, 12.00 noon - 2.00 pm Fri		
The aim of this module is to teach computer programming skills, including principles of good programming practice, with an emphasis on statistical computing. Practical work focusses on the widely-used statistical language and environment R. Practical skills are developed through a series of computing exercises that include (1) modular programming; (2) manipulating data; (3) simulating data with specific statistical properties, (4) investigating behaviour of statistical procedures under failure of statistical assumptions.			
Programme module type:	Compulsory for MMath Statistics. At least one of MT4111 – MT4113 or MT5611 is compulsory for MMath Mathematics. At least one of MT4111 – MT4113 is compulsory for BSc/MA Mathematics and BSc/MA Statistics Optional for all other programmes in the School of Mathematics & Statistics		
Pre-requisite(s):	pre- or co-requisite MT2508 or MT2004	Anti-requisite(s):	MT3607
Co-requisite(s):	pre- or co-requisite MT2508 or MT2004		
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour lectures (x 10 weeks), 2-hour practical classes (x 10 weeks)		
	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: 2-hour Written Examination = 40% Coursework = 60%		
Re-assessment pattern:	1-hour 40 minute Written Examination = 40%, Coursework (4 new programming assignments) = 60%		
Module coordinator:	Dr L J Thomas		
Module teaching staff:	Dr L J Thomas, Dr E Rexstad		

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MT4501 Topics in the History of Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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: Any of MT3501 - MT3508 or MT3606	Anti-requisite(s):	MT5613	
Co-requisite(s):	either pre- or co-requisites: Any of MT3501 - MT3508 or MT3606			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	Coursework (new project) = 100%			
Module coordinator:	Dr I J Falconer			
Module teaching staff:	Dr I J Falconer, Dr C P Bleak, Prof M A J Chaplain			

MT4507 Classical Mechanics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
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 MT2503 or PH3081) and MT3504	Required for:	PH4032, PH5004	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof T Neukirch			
Module teaching staff:	Prof T Neukirch			

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MT4508 Dynamical Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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 (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V Archontis			
Module teaching staff:	Dr V Archontis			

MT4509 Fluid Dynamics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MMath Applied Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 compulsory for MMath Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	(MT2506 and MT3504) or MT3601	Required for:	MT5809	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%)			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Carr			
Module teaching staff:	Dr M Carr			

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MT4510 Solar Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 MMath Applied Mathematics. At least two from MT4003, MT4004, MT4509, MT4510 and MT4606 compulsory for MMath Mathematics. Optional for all other programmes in the School.			
Pre-requisite(s):	(MT2506 and MT3504) or MT3601	Anti-requisite(s):	MT4504, MT5804	
Required for:	MT5810			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof I De Moortel			
Module teaching staff:	Prof I De Moortel			

MT4511 Asymptotic Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2018/9			
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 (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 34 hours		Guided independent study: 116 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Wilmot-Smith			
Module teaching staff:	Dr A Wilmot-Smith			

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MT4513 Fractal Geometry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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):	(MT2503 or MT2001) and any one of MT3501 - MT3504	Anti-requisite(s):	MT5813	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof K J Falconer			
Module teaching staff:	Prof K J Falconer			

MT4514 Graph Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2018/9			
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):	MT1003 or MT2504 or MT2005	Required for:	MT5821	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof N Ruskuc			
Module teaching staff:	Prof N Ruskuc			

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MT4515 Functional Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
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 or (MT2501 and MT2502)	Required for:	MT5830	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof K Falconer			
Module teaching staff:	Prof K Falconer			

MT4516 Finite Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 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):	MT2504 or MT2505 or MT2002 or MT2005	Required for:	MT5826	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C M Roney-Dougal			
Module teaching staff:	Dr C M Roney-Dougal			

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MT4519 Number Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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):	(MT2505 or MT2002) and one of MT3501 - MT3505			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

MT4526 Topology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
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.				
Programme module type:	Optional for all programmes in the School.			
Pre-requisite(s):	MT2002 or MT2502 or MT3600 or MT4004			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L S Theran			
Module teaching staff:	Dr L S Theran			

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MT4527 Time Series Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu			
This module provides an introduction to univariate linear times series models (ARIMA processes) and univariate non-linear times-series models (ARCH and GARCH). The syllabus includes: forecasting methods for constant mean and trend models, the ARIMA class of models (including seasonal ARIMA models), fitting and forecasting ARIMA models, ARCH and GARCH processes.				
Programme module type:	MT4527 or MT4608 is compulsory for MMath Statistics. At least two from MT3706, MT4527, MT4528, MT4608 compulsory for BSc Management Science (single Honours). Optional for all programmes in the School.			
Pre-requisite(s):	MT2004 or MT2508			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: 2-hour Written Examination = 100%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V M Popov			
Module teaching staff:	Dr V M Popov			

MT4528 Markov Chains and Processes				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	11.00 noon 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, Chapman-Kolmogorov equations, classification of states of Markov chains, decomposition of chains, stationary distributions, random walks, branching processes, the Poisson process, birth-and-death processes and their transient behaviour, embedded chains, Markovian queues and hidden Markov models.				
Programme module type:	At least two from MT3706, MT4527, MT4528, MT4608 compulsory for BSc Management Science (single Honours). Optional for all undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2504 or MT2004		Anti-requisite(s):	MT3706
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 8 tutorials over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D L Borchers			
Module teaching staff:	Prof D L Borchers, Dr V M Popov			

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MT4530 Population Genetics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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 or MT2508			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr I B J Goudie			
Module teaching staff:	Dr I B J Goudie			

MT4531 Bayesian Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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 (or MT5831), MT4608 and MT4609 compulsory for BSc Statistics. MT4531 or MT4606 (or MT5831 or MT5701) compulsory for BSc/MA joint Honours Statistics programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT3507 or MT3606		Anti-requisite(s):	MT5831
Learning and teaching methods and delivery:	Weekly contact: 24 lectures and 7 practical classes over the semester.			
	Scheduled learning: 31 hours		Guided independent study: 119 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papathomas			
Module teaching staff:	Dr M Papathomas			

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MT4537 Spatial Processes				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 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):	MT3507 or MT3606	Anti-requisite(s):	MT4536	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J B Illian			
Module teaching staff:	Dr J B Illian			

MT4539 Quantitative Risk Management				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon Wed, Fri and odd Mon, and 2.00 pm Fri			
<p>The module introduces the concept of financial risk and discusses the importance of its regulation. The emphasis is laid on the popular risk measure Value at Risk (VaR). After a brief discussion on asset returns, various modelling techniques - ranging from the simple Historical Simulation to the more advanced ARMA and GARCH models - are presented and applied for the calculation of VaR using real financial data. The aim of this module is to provide a solid basis in risk management for those students considering a career in finance.</p>				
Programme module type:	Optional for all undergraduate programmes in the School of Mathematics & Statistics			
Pre-requisite(s):	MT2504, MT2508			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (x 10 weeks), 5 tutorials and 5 practical sessions.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V Popov			
Module teaching staff:	Dr V Popov			

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MT4551 Financial Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
Students are introduced to the application of mathematical models to financial instruments. The course will include an overview of financial markets and the terminology in common usage but the emphasis will be on the mathematical description of risk and return as a means of pricing contracts and options.				
Programme module type:	Optional for all programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	(MT2001 or MT2503) and (MT1007 or MT2004 or MT2504 or EC2003) and MT3504			
Required for:	MT5812			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D H Mackay			
Module teaching staff:	Prof D H Mackay			

MT4552 Mathematical Biology 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu			
This module will explore real world applications of mathematics to biological problems e.g. harvesting of fish stocks, host-parasitoid systems, predator-prey dynamics, molecular interactions. The mathematical techniques used in the modelling will be nonlinear difference equations and ordinary differential equations. The module will be useful to students who wish to specialise in Applied Mathematics in their degree programme.				
Programme module type:	Optional for all programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT3504			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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 = 90%, Coursework (Class Test) = 10%			
Re-assessment pattern:	Take-Home Examination = 100%			
Module coordinator:	Dr C Venkataraman			
Module teaching staff:	Dr C Venkataraman			

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MT4553 Theory of Electric and Magnetic Fields				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	10.00 am Mon (odd weeks), Wed, Fri			
The module will consider the mathematical and physical principles that describe the theory of electric and magnetic fields. It will first describe the basic principles of electrostatics and magneto-statics and following this electrodynamics. Next Maxwell's equations are described along with the properties of electro-magnetic waves in a variety of media. Finally an application to the area of plasma physics is carried out through considering the orbits of charged particles in a variety of spatially and time varying magnetic fields.				
Programme module type:	Optional for all programmes within the School of Mathematics & Statistics (except Joint Mathematics and Physics or Mathematics and Theoretical Physics)			
Pre-requisite(s):	MT2503, MT2506 and MT3504	Anti-requisite(s):	PH3007	
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 10 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 120 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 (class test) = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr D Mackay			
Module teaching staff:	Dr D Mackay			

MT4599 Project in Mathematics / Statistics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the final year of a BSc/MA Honours degree programme in the School			
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 BSc/MA Mathematics, BSc/MA Statistics, all BSc/MA joint Honours Mathematics programmes (including Mathematics 'with' degrees) and all BSc/MA 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 = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%: Project = 80%, Presentation = 20%			
Re-assessment pattern:	Resubmission of project = 100%			
Module coordinator:	Prof C E Parnell			

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MT4606 Statistical Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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 2000- and 3000-level Statistics modules 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:	Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3507 or MT3606	Anti-requisite(s):	MT5701	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A G Lynch			
Module teaching staff:	Prof A G Lynch			

MT4607 Generalised Linear Models and Data Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2018/9			
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:	MT4607 (or MT5753) compulsory for BSc/MA single and joint Honours Statistics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	(MT2001 or MT2503), (MT2004 or MT2508) and either pre- or co-requisite MT3501	Anti-requisite(s):	MT5753	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papathomas			
Module teaching staff:	Dr M Papathomas			

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MT4608 Sampling Theory			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2018/9		
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 MMath Statistics. At least two of MT4531 (or MT5831), MT4608 and MT4609 are compulsory for BSc Statistics. At least two from MT3706, MT4527, MT4528, MT4608 are compulsory for BSc Management Science (single Honours). Optional for all other undergraduate programmes in the School.</p>		
Pre-requisite(s):	MT2004 or MT2508	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 (weeks 1 - 10) 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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr J B Illian		
Module teaching staff:	Dr J B Illian		

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MT4609 Multivariate Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
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.				
Programme module type:	At least two of MT4531 (or MT5831), MT4608 and MT4609 are compulsory for BSc Statistics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3507 or MT3606			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr I B J Goudie			
Module teaching staff:	Dr I B J Goudie			

MT4614 Design of Experiments				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Availability subject to confirmation			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
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. It includes consultation with the scientist and interpretation of the results.				
Programme module type:	Optional for all programmes in the School (including MSc programmes).			
Pre-requisite(s):	(MT2004 or MT2508) and MT3501			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and either tutorial or practical (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof R A Bailey			
Module teaching staff:	Prof R A Bailey			

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MT4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 6,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint or 'with' Honours in the School of Mathematics & Statistics			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

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MT4796 Joint Project (30cr)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.			
Programme module type:	Optional for Joint or 'with' Honours in the School of Mathematics & Statistics		
Pre-requisite(s):	A Letter of Agreement		
Anti-requisite(s):	More than 30 credits in other dissertation / project modules		
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: hours	Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		
Module coordinator:	As per Letter of Agreement.		

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MT5611 Advanced Symbolic Computation				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2018/9			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
<p>This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation 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 computer is not intelligent; 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 MMath Applied Mathematics and MMath Pure Mathematics. At least one of MT3607, MT4111, MT4113 and MT5611 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	at least one MT4000-level module	Anti-requisite(s):	MT4111	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J D Mitchell			
Module teaching staff:	Dr J D Mitchell, Dr C M Roney-Dougal, Dr L Theran			

MT5701 Advanced Statistical Inference				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8			
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 MMath Statistics Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	(MT3507 or MT3606) and any MT4000-level module	Anti-requisite(s):	MT4606	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A G Lynch			
Module teaching staff:	Prof A G Lynch			

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MT5751 Estimating Animal Abundance			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2018/9		
Planned timetable:	12.00 noon Mon (odd), Wed and Fri		
<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 MMath Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>		
Pre-requisite(s):	(MT3507 or MT3508 or MT3606) and any MT4000-level module		
Learning and teaching methods and delivery:	Weekly contact: 1.5 hrs lecture, 1 hr practical, 0.5 hr tutorial (weeks 1 - 10)		
	Scheduled learning: 30 hours	Guided independent study: 120 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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof D L Borchers		
Module teaching staff:	Prof D L Borchers, Prof S T Buckland, Dr E Rexstad		

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MT5753 Statistical Modelling			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	2.00 pm - 5.00 pm Mon - Thu and 2.00 pm - 3.30 pm Fri (Weeks 5,7,8 and 9)		
<p>This applied statistics module covers the main aspects of linear models (LMs) and generalized linear models (GLMs). In each case the course describes model specification, various options for model selection, model assessment and tools for diagnosing model faults. Common modelling issues such as collinearity and residual correlation are also addressed, and as a consequence of the latter the Generalized Least squares (GLS) method is described. The GLM component has emphasis on models for count data and presence/absence data while GLMs for multinomial (sometimes called choice-based models) are also covered for nominal and ordinal response outcomes. The largest part of the course material is taught inside an environmental impact assessment case study with reality-based research objectives. Political and medical examples are used to illustrate the multinomial models.</p>			
Programme module type:	Compulsory for MMath Statistics		
Pre-requisite(s):	at least one MT4000-level module	Anti-requisite(s):	MT4607
Required for:	MT5757		
Learning and teaching methods and delivery:	Weekly contact: 6 hours lectures, 1.5 hours tutorials and 6 hours practicals (x 5 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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr L A Scott-Hayward		
Module teaching staff:	Dr L A Scott-Hayward		

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MT5757 Advanced Data Analysis			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	12.00 noon 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; LASSO and the Elastic Net; 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 R and the commercial packages SAS.</p>			
Programme module type:	<p>At least two of MT5751, MT5752, MT5757, MT5758 and ID5059 compulsory for MMath Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5823 - MT5830, MT5852 and MT5990 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>		
Pre-requisite(s):	MT4607 or MT5753		
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) 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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr H Worthington		
Module teaching staff:	Dr H Worthington, TBC		

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MT5758 Applied Multivariate Analysis				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am 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 MMath Statistics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	Acceptance on to MMath Statistics or MMath Mathematics programmes	Anti-requisite(s):	MT4609	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof L Thomas			
Module teaching staff:	Prof L Thomas, Dr V M Popov			

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MT5802 Advanced Analytical Techniques				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
This module introduces students to some further important applied analytic techniques such as Variational Calculus, Integral equations and transforms, and the theory of Steepest Descent.				
Programme module type:	<p>At least three from MT5802, MT5806, MT5809, MT5810, MT5852 and MT5990 compulsory for MMath Applied Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT 5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3503			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C V Tran			
Module teaching staff:	Dr C V Tran			

MT5806 Advanced Computational Techniques				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu			
This module introduces students to some of the ideas, techniques and constraints that underpin modern approaches to the numerical modeling of physical processes that may be described by partial differential equations. Students will gain expertise in implementing standard methods and will submit a short dissertation together with a portfolio of computational work.				
Programme module type:	<p>At least three from MT5802, MT5806, MT5809, MT5810, MT5852 and MT5990 compulsory for MMath Applied Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT 5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3802 and MT4112			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (weeks 1 - 10) and a typical average of 0.5 hours of project supervisions (weeks 2 - 11)			
	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%			
Re-assessment pattern:	Resubmission of projects = 100%			
Module coordinator:	Dr S J Brooks			
Module teaching staff:	Dr S J Brooks			

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MT5809 Advanced Fluid Dynamics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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, MT5852 and MT5990 compulsory for MMath Applied Mathematics.</p> <p>At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT 5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4509			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J Reinaud			
Module teaching staff:	Dr J Reinaud			

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MT5810 Advanced Solar Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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, MT5852 and MT5990 compulsory for MMath Applied Mathematics. At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT 5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT4510			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof C E Parnell			
Module teaching staff:	Prof C E Parnell			

MT5821 Advanced Combinatorics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Availability subject to confirmation			
Planned timetable:	12.00 noon 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:	At least three from MT5821, MT5823 - MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT5755 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852, MT5990 and ID5059 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT4514 or MT4516			
Learning and teaching methods and delivery:	Weekly contact: 2.5-hour lectures (weeks 1 - 10) and 1-hour tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof P J Cameron			
Module teaching staff:	Prof P J Cameron			

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MT5823 Semigroups				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8			
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:	At least three from MT5821, MT5823 - MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT575 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852, MT5990 and ID5059 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT4003 or MT3505 or MT4517			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J D Mitchell			
Module teaching staff:	Dr J D Mitchell			

MT5824 Topics in Groups				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 MT5821, MT5823 - MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT575 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852, MT5990 and ID5059 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT4003			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C P Bleak			
Module teaching staff:	Dr C P Bleak			

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MT5825 Measure and Probability Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
This module introduces some of the powerful techniques and ideas of modern mathematical analysis and mathematical probability theory 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 mathematical foundations for probability theory, law of large numbers. Mathematical analysis and the use of probabilistic methods in 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 MT5821, MT5823 - MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT575 - MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852, MT5990 and ID5059 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3502 or MT4004			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof L Olsen			
Module teaching staff:	Prof L Olsen			

MT5827 Lie Algebras				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8			
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 MT5821, MT5823 – MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 – MT5753, MT575 – MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 – MT5830, MT5836, MT5990 and ID5059 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3501 and (MT3505 or MT4003 or MT4517)			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Detinko			
Module teaching staff:	Dr A Detinko			

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MT5830 Topics in Geometry and Analysis				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2018/9			
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 MT5821, MT5823 – MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 – MT5753, MT575 – MT5759, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 – MT5830, MT5836, MT5990 and ID5059 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3502 or MT4004 or MT4515	Anti-requisite(s):	MT5828	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Todd			
Module teaching staff:	Dr M Todd			

MT5831 Advanced Bayesian Inference				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 MMath Statistics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT4507 or MT3606	Anti-requisite(s):	MT4531	
Learning and teaching methods and delivery:	Weekly contact: 24 lectures and 7 practical classes over semester.			
	Scheduled learning: 31 hours		Guided independent study: 169 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papathomas			
Module teaching staff:	Dr M Papathomas			

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MT5836 Galois Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2018/9			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
<p>Galois theory is one of the most beautiful areas of mathematics, establishing a remarkable connection between the theory of polynomial equations and their roots and group theory. The subject brings together ideas from the theory of groups and fields in a powerful way, culminating in Galois' fundamental theorem. There are many applications of the work, for example demonstrating that certain ruler and compass constructions are impossible, and that there is no general formula for the solution of quintic equations.</p>				
Programme module type:	<p>At least three from MT5821, MT5823 - MT5830, MT5836 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, MT5836, MT5852, MT5990 and ID5059 compulsory for MMath Mathematics.</p> <p>Optional for all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT3505 or MT4517	Anti-requisite(s):	MT5826	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 10 tutorials/practical classes over semester.			
	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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

MT5837 Ergodic Theory and Dynamical Systems				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.00 am - 10.00 am Mon (even teaching weeks), Tue, Thu			
<p>This module introduces the modern ergodic theory approach to understanding chaotic dynamical systems. Topics include recurrence, consequences of ergodicity, entropy, the structure of the space of invariant measures and unique ergodicity. This will give students an insight into a thriving field of mathematics, which is at the core of the research interests of many faculty in the Pure Division in the School of Mathematics and Statistics.</p>				
Programme module type:	Optional for MMath Mathematics or MMath Pure Mathematics			
Pre-requisite(s):	MT5825			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (x 10 weeks), 1 tutorial (x 10 weeks)			
	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%			
Re-assessment pattern:	2.5-hour Written Examination = 100%			
Module coordinator:	Dr M Todd			
Module teaching staff:	Dr M Todd			

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MT5852 Mathematical Biology 2				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
This module will explore real world applications of mathematics to biological and medical problems e.g. cell movement, pattern formation in animal coat markings, spread of diseases (AIDS, measles). The mathematical techniques used in the modelling will be nonlinear partial differential equations. The module will be useful to students who wish to specialise in Applied Mathematics in their degree programme.				
Programme module type:	Optional for all undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT3504			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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 = 90%, Coursework (Class Test) = 10%			
Re-assessment pattern:	Take-Home Examination = 100%			
Module coordinator:	Dr T Lorenzi			
Module teaching staff:	Dr T Lorenzi			

MT5990 Independent Study Module				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on an MMath, MPhys or MSc degree programme in the School			
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, MT5852 and MT5990 compulsory for MMath Applied Mathematics. At least three from MT5821, MT5823 - MT5830, MT5836 and MT5990 compulsory for MMath Pure Mathematics. At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836, MT5852 and MT5990 compulsory for MMath Mathematics. Optional for MMath Statistics and MPhys 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%			
Re-assessment pattern:	Resubmission of coursework = 100%			
Module coordinator:	Dr A L Wilmot-Smith			

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MT5991 Professional Skills for Mathematical Scientists				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on an MSc Postgraduate programme or, exceptionally, on an MMath or MPhys Honours degree programme in the School			
Planned timetable:	To be arranged.			
This module encompasses a range of skills, both generic and topic specific, together with taught components aimed at providing an appreciation of both breadth and depth of research areas in Pure or Applied Mathematics. The precise programme of study, together with the identification of the relevant software expertise required, will be determined in consultation with the student's supervisor.				
Programme module type:	In exceptional circumstances and with the approval of the Head of School, optional for final year of MMath 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%			
Re-assessment pattern:	Resubmission of coursework = 100%			
Module coordinator:	Dr J D Mitchell			
Module teaching staff:	n/a			

MT5999 Advanced Project in Mathematics / Statistics				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the final year of an MMath or MPhys Honours programme in the School			
Planned timetable:	To be arranged.			
This is a more substantial project which, for MMath students, will replace the existing Honours project. The project will be chosen from an approved list of topics. The student will be required to investigate a topic in some depth, submit a report by the end of April and give a presentation.				
Programme module type:	Compulsory for MMath Applied Mathematics, MMath Mathematics, MMath Pure Mathematics and MMath Statistics. Either MT5999 or PH5102 is compulsory for MPhys Mathematics and Theoretical Physics.			
Pre-requisite(s):	Entry to an MPhys or MMath 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 = 100%: Project = 80%, Presentation = 20%			
Re-assessment pattern:	Resubmission of project = 100%			
Module coordinator:	Prof C E Parnell			

School of Medicine

Medicine (MD) modules

MD3001 Medicine: Honours 1 (Cardiovascular and Respiratory Systems)				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students enrolled in the BSc 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 1 and 2 modules. 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. The disease mechanisms and therapy of disorders pertinent to these body systems will be introduced and relevant clinical problems and clinical skills will provide clinical context. The ethical, moral and behavioural aspects relevant to these systems will be discussed.</p> <p>MD3001 also provides system contextualised learning in the vertical themes of infection, public health and health psychology, as well as being part of the research skills matrix which prepares students for the critical review of published data and scientific writing.</p>				
Programme module type:	Compulsory for BSc Honours Medicine			
Pre-requisite(s):	MD2001 and MD2002			
Required for:	MD4001, MD4002, MD4003			
Learning and teaching methods and delivery:	Weekly contact: On average 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: 250 hours		Guided independent study: 350 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. Coursework will comprise a written examinations totaling 25% of the module grade.			
Re-assessment pattern:	2 x 1.5-hour Written Examinations = 100%			
Module coordinator:	Dr W Dhaliwal, Dr R Humphreys			

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MD3002 Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)			
SCOTCAT Credits:	60	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.		
Planned timetable:	To be arranged.		
<p>Medicine Honours 2 will: - provide in depth coverage of the structure and functions of the reproductive, renal and gastrointestinal systems - study the anatomy of the abdomen and pelvis 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 - integrate the ethical, moral and behavioural aspects relevant to these systems. MD3002 also provides system contextualised learning in the vertical themes of microbiology, public health and healthy psychology, as well as being part of the research skills matrix which prepares students for the critical review of published data and scientific writing.</p>			
Programme module type:	Compulsory for BSc Honours Medicine		
Pre-requisite(s):	MD2001 and MD2002		
Required for:	MD4001, MD4002, MD4003		
Learning and teaching methods and delivery:	<p>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.</p>		
	Scheduled learning: 250 hours	Guided independent study: 350 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%</p>		
	<p>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 to this stage of a medical curriculum as demonstrated in a pass/fail objective structured clinical exam (OSCE). Coursework will comprise a written examination totaling 25% of the module grade.</p>		
Re-assessment pattern:	2 x 1.5-hour Written Examinations = 100%		
Module coordinator:	Dr A Laidlaw, Dr O Varsou		

MD4001 Medicine: Honours 3 (Central Nervous System and Endocrine System)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students enrolled in the BSc 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 - study the anatomy of the head and neck 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 - consider the evidence base for medicine and develop critical appraisal skills.</p>				
Programme module type:	Compulsory for BSc Honours Medicine			
Pre-requisite(s):	MD3001 and MD3002			
Learning and teaching methods and delivery:	<p>Weekly contact: On average 10 lectures and 6 hours of seminars/tutorials/practicals each week. Students typically spend two hours a week on clinical case studies and clinical skills, in addition to some whole day placements in clinical settings. Up to 6 hours per week of directed self-learning.</p>			
	Scheduled learning: 250 hours		Guided independent study: 350 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%</p>			
	<p>As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examination totaling 25% of the module grade.</p>			
Re-assessment pattern:	2 x 1.5-hour Written Examinations = 100%			
Module coordinator:	Dr R Davies, Dr P Reynolds			

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MD4002 Medicine: Honours 4 (Student-selected component)			
SCOTCAT Credits:	40	SCQF Level 10	Semester: 2
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students enrolled in the BSc 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 BSc Honours Medicine		
Pre-requisite(s):	MD3001 and MD3002		
Learning and teaching methods and delivery:	Weekly contact: To be arranged.		
	Scheduled learning: 5 hours	Guided independent study: 395 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Lab/data based research or critical review project assessed by dissertation (100%) and oral presentation (0% of grade but which must be passed).		
Re-assessment pattern:	re-assessment work: (dissertation if failed at original sitting; oral presentation if failed at original sitting) may be done over the summer months and submitted at the resit diet.		
Module coordinator:	Dr J Tello, Dr E Cezayirli		

MD4003 Medicine: Honours 5 (Applied Medical Science)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.			
Planned timetable:	To be arranged.			
<p>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 from morning's work and a further session which may be a simulation exercise, 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, cannulation fluid management and safe prescribing. Clinical decision making and problem reasoning workshops are designed to develop clinical reasoning powers. The series of revision topics relate to patient investigations such as 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. One cycle is dedicated to ward simulations where medical students work in multidisciplinary teams along with the nursing and pharmacy students from Dundee and Aberdeen.</p>				
Programme module type:	Compulsory for BSc Honours Medicine			
Pre-requisite(s):	MD3001 and MD3002			
Learning and teaching methods and delivery:	Weekly contact: 5 hours in 5 clinical cycles over the semester as well as some whole day placements in clinical settings.			
	Scheduled learning: 50 hours		Guided independent study: 150 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%)			
Re-assessment pattern:	1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)			
Module coordinator:	Dr P Bjelogric			

School of Modern Languages

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are properly qualified to enter the module.

Arabic (AR) modules

AR3401 Media Arabic 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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 for Arabic			
Pre-requisite(s):	AR2001 and AR2002			
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials and 1 surgery hour			
	Scheduled learning: 20 hours		Guided independent study: 150 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Caiani			
Module teaching staff:	Dr F Caiani, TBC			

AR3402 Media Arabic 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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):	AR2001 and AR2002, AR3401 or Study Abroad			
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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AR3411 Modern Arab Culture and Society				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	10.00 am Mon, 10.00 am Thu			
<p>This module explores cultural aspects of the modern Arab world based on the works of some of the most influential Arab writers, intellectuals, critics, visual artists and filmmakers of the last two hundred years. The module is designed to improve and broaden students' knowledge of Arabic and the modern Arab world while also including a cultural component. Students will be required to read passages of Arabic texts from various genres and to watch films in Arabic (with subtitles). In-class discussions based on secondary readings in English will help provide an understanding of the cultural and socio-political dimensions of the contemporary Arab world. All presentations and written work will be in Arabic.</p>				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	Permission of the Arabic Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 9 weeks), 2 hours of compulsory film viewing (x 2 weeks) and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%			
	As used by St Andrews: 15-minute Oral Examination = 40%, Coursework = 60%			
Re-assessment pattern:	15-minute Oral Examination = 100%			
Module coordinator:	Dr O Elmaz or TBC			
Module teaching staff:	Dr O Elmaz or TBC			

AR3421 Arabic Short Stories 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Wed, 11.00 am Thu			
<p>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.</p>				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	Permission of the Arabic Honours Adviser	Co-requisite(s):	AR3401	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms C Cobham			
Module teaching staff:	Ms C Cobham			

AR3422 Arabic Short Stories 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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):	AR2001, AR2002, AR3401 or study abroad in Semester 1	Co-requisite(s):	AR3402	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms C Cobham			
Module teaching staff:	Ms C Cobham			

AR3461 Key Texts in Classical Arabic Literature and Culture 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	Permission of the Arabic Honours Adviser	Co-requisite(s):	AR3401	
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Elmaz or TBC			
Module teaching staff:	Dr O Elmaz or TBC			

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AR3462 Key Texts in Classical Arabic Literature and Culture 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	AR2001, AR2002, AR3401 or Study Abroad in Semester 1	Co-requisite(s):	AR3402	
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Elmaz or TBC			
Module teaching staff:	Dr O Elmaz or TBC			

AR4401 Advanced Arabic 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	3.00 or 4.00 pm Mon, 3.00 or 4.00 pm Thu (or 5.00 pm Thu in even weeks)			
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):	AR2001, AR2002, AR3401, AR3402 or study abroad			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms C Cobham			
Module teaching staff:	Ms C Cobham, Dr F Caiani, TBC, Mr M Whitehouse			

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AR4402 Advanced Arabic 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	3.00 pm or 4.00 pm Mon, 3.00 pm or 4.00 pm Thu (or 5.00 pm Thu in even weeks)			
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):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad, AR4401			
Anti-requisite(s):	AR4205			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms C Cobham			
Module teaching staff:	Ms C Cobham, Dr F Caiani, TBC, Mr M Whitehouse			

AR4421 Exile and Identity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 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):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour .			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms C Cobham			
Module teaching staff:	Ms C Cobham			

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AR4422 Novellas				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 and other relevant 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):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad, AR4401			
Co-requisite(s):	AR4402			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms C Cobham			
Module teaching staff:	Ms C Cobham			

AR4461 Classical Arabic Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Elmaz or TBC			
Module teaching staff:	Dr O Elmaz or TBC			

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AR4462 Classical Arabic Prose				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Elmaz or TBC			
Module teaching staff:	Dr O Elmaz or TBC			

AR4999 Dissertation in Arabic Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad	Anti-requisite(s):	A dissertation in another subject.	
Co-requisite(s):	AR4401, AR4402			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and approximately 8 contact hours with supervisor in total over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Ms C Cobham			
Module teaching staff:	As appropriate			

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Comparative Literature (CO) modules

CO3001 Issues in Comparative Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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. Key areas in Comparative Literature may include: A) Influence and Reception; B) Literature that Compares; C) 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 for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr E Finer			
Module teaching staff:	Team taught			

CO3002 Found in Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
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 (from 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.				
Programme module type:	Compulsory for Comparative Literature			
Pre-requisite(s):	CO3001			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Take Home Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Bond			
Module teaching staff:	Team taught			

CO3020 Cultural Memory and Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr C Lawson			
Module teaching staff:	Team taught			

CO3021 Crossing the Mediterranean				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written coursework = 100%			
Module coordinator:	Prof D Duncan			
Module teaching staff:	Team taught			

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CO4002 The Literary Canon				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
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?'				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO3001, CO3002, CO4003			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M-A Hutton			
Module teaching staff:	Team taught			

CO4003 Issues in Cultural Studies				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
The module will expose students to alternative approaches to the study of culture and cultural production, allowing them to reach their own definitions of the discipline of Comparative Literature in the context of comparative cultural studies. Five key areas in Cultural Studies will be addressed: (1) Defining Culture, (2) Hegemony, Articulation and Discourse in Cultural Studies, (3) Intellectuals, Truth and Power, (4) Gender and Culture, (5) Representation, Resistance and Violence in Cultural Production. The module will also give students the opportunity to improve their essay writing through a reflective learning log and coursework essay.				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO3001, CO3002	Required for:	CO4002	
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Team taught			

CO4020 Literature and the Bible				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr R Wilson			
Module teaching staff:	Team taught			

CO4021 Autobiography and the Visual Arts				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>In recent decades, life-writing has taken a decidedly visual turn. The incorporation of visual arts (painting, photography and cinema) in autobiographical texts and films raises and redefines issues central to the genre: (how) can the self can be 'narrated'? What role do images play in the process of self-reflection? Other aspects discussed in this module will include the use of painting, photography, and cinema as metaphors of life writing; the merging of the public and private spheres in art; the creation of hybrid texts and art works and the question of innovation; the gendered aspects of these visual modes of writing the self. Texts studied may include travel diaries of painters; autobiographical films; hybrid autobiographical texts incorporating illustrations; autobiographical texts by women artists; texts reflecting on theory and practice of 'photo-biography'; artistic projects framing the self as art work. The module will focus primarily on works from the end of the nineteenth century until the present and will include collaboration with the School of Art History.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Hugueny-Leger			
Module teaching staff:	Team taught			

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CO4022 Illness and Literature			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
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		
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.		
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.		
	Scheduled learning: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Written Coursework = 100%		
Module coordinator:	Dr E Bond		
Module teaching staff:	Team taught		

CO4024 Performing Early-Modern Sexualities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2018/9		
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		
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.		
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.		
	Scheduled learning: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Written Coursework = 100%		
Module coordinator:	Dr J Prest		
Module teaching staff:	Team taught		

CO4026 Classicism in European Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module is about 'the best' writing. We will consider the notion of classicism in Italian, French and German literature, tracing the endeavours of generations of writers to rise to the challenge of antiquity by creating literary art which is well-proportioned, harmonious, and which advocates humanist ideals. Through this course, you will not only be introduced to some of the greatest writers Europe has produced (Goethe, Racine, Petrarca), you will develop as a comparatist by learning to reflect critically on national narratives of literary history. In particular, we will ask not only what classicism is, but also why writers and literary historians have felt it necessary to create their own, national classical centres and to what extent these are culturally specific.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr M White			
Module teaching staff:	Team taught			

CO4027 Folk and Fairy Tales				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module explores the genre of the folk and fairy tale through texts originating in different periods and national contexts. The broad diversity and rich intertextuality which characterises the genre will allow students to reflect on key narrative devices and their intercultural, intermedial, interhistorical and international scope. From medieval concepts of romance and storytelling to recent adaptations of fairy tales in visual media, the module will reflect on how folk and fairy tales have kept evolving, feeding into collective imagination and (inter)national issues. Students will be encouraged to reflect on their own reading of fairy tales in order to devise and research their final essay question.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr V Turner			

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CO4028 Great Works and their Adaptations: Proust's Remembrance of Things Past				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
The module explores the relationship between Proust's Remembrance of Things Past (with particular emphasis on the first and final volumes, Swann's Way and Time Regained) and a range of its adaptations in, for instance, film, drama, the graphic novel, music and poetry. Various possible relationships between the original text and its adaptations will be examined, as will the definition and limits of the term itself: when, and why, might a reworking of a text no longer qualify as an 'adaptation'?				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof M-A Hutton			
Module teaching staff:	Team taught			

CO4029 Science and Culture in European Modernisms				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
The continuous advancement and expansion of technology and science that aimed to promote societal 'happiness' over the last two hundred years created tremendous opportunities for mobility, communication and wellbeing, eliciting enthusiastic responses as well as preoccupations across intellectual elites and society. This module will explore the interface between the sciences and the humanities, two areas that traditionally belonged to two discrete paradigms of knowledge. We will study themes such as life in the metropolis, the phenomenon of the 'crowd' and the effects it had on readership, the influences of medical sciences and technology on culture by reading works by authors such as G. Apollinaire (France), J. Ortega y Gasset (Spain), G. Simmel and E. Canetti (Germany), F. T. Marinetti (Italy).				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	one of CO2001, CO2002 and Permission of the Comparative Literature Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and an optional 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%			
Re-assessment pattern:	New Coursework = 100%			
Module coordinator:	Dr R Riccobono			
Module teaching staff:	Team taught			

CO4098 Short Dissertation in Comparative Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 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 no more than 5,000 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>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO3001 and Permission of the Comparative Literature Honours Adviser.			
Anti-requisite(s):	a 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour workshops and 4 contact hours with supervisor.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Prof M-A Hutton			

CO4099 Long Dissertation in Comparative Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	not applicable.			
<p>The year-long dissertation offers students the possibility to engage in advanced independent study on a topic in Comparative Literature on which they already have adequate basic knowledge and for which a suitable supervisor, or supervisors, can be found. The dissertation will, as a rule, consist of a study of a given body of primary or theoretical texts analysed in a comparatist framework. The topic must be agreed in advance by the Comparative Literature Honours Adviser following a favourable report from the proposed supervisor(s). The dissertation length is 10 000 words and is normally written in English. In addition to individual supervision, training sessions are offered on research methods, academic writing, and presentation.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO3002. Approval of the Comparative Literature Hons Adviser. For students who have spend a semester abroad, CO3001 may replace CO3002.			
Anti-requisite(s):	Any other dissertation module			
Learning and teaching methods and delivery:	Weekly contact: 3 workshops in Semester 1. 4 supervisory sessions per semester.			
	Scheduled learning: 11 hours		Guided independent study: 290 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%			
Re-assessment pattern:	Resubmission of dissertation = 100%			
Module coordinator:	Prof M-A Hutton			
Module teaching staff:				

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French (FR) modules

FR3001 French Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon			
The module aims to give a fundamental training at Honours level in written and aural comprehension skills, objective résumé writing, oral and written fluency, and in translation from French to English. It is intended as the basic practical language unit for all categories of student.				
Programme module type:	Compulsory for all degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Required for:	FR3002 or equivalent Erasmus+ second semester abroad			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Bowd			

FR3002 French Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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. This module may be replaced by Junior Honours second semester abroad at a partner institution. 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.			
Pre-requisite(s):	FR3001	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 = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Bowd			

FR3028 Plays, Players and Playwrights (1620 - 1680) 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module will cover the following areas with regard to the theatre from 1620 until 1660 in terms of texts, and until 1680 in terms of the physical aspects: (i) the theatre as a physical entity: the salles, developments in staging, spectacle; (ii) the theatre as theory: from baroque to classical; (iii) the theatre as text: developments in the three genres; (iv) the theatre and society; (v) the theatre and political control. Primary texts to be drawn from Rotrou, P. Corneille, Scarron, (Molière). Secondary texts from Quinault, Mairet, Tristan.				
Programme module type:	Optional for all MA degrees involving French Related module: FR4129			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr J S O Carson			

FR3059 From One War to Another: French Politics, Culture and Society 1914 - 1945 (1)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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:	Optional for all MA degrees involving French Related module: FR4160			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Bowd			

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FR3077 Contemporary French Fiction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The aim of this module is to introduce students to works of contemporary French fiction. Five works of fiction (all published within the last 10 years; several of them more recently) will be studied in the context of a range of theoretical and pedagogic questions. What do we mean by 'contemporary fiction' (or indeed 'fiction')? What is 'the contemporary'? Is national literature still an important phenomenon in a world of translation and world literature? How do we go about choosing texts to study / teach on a contemporary module of this kind? Can a canon of emerging texts and / or authors already be identified? Do these texts share specifically 'contemporary' traits, e.g. their relationship to socio-political 'reality', stylistic or generic conventions? How might we judge if these are great, or even good, works, and does it matter?</p>				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	Permission of the French Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M-A Hutton			

FR3101 French Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
<p>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.</p> <p>Formal learning and assessment will be through:</p> <p>(i) a supervised project of 5,000 words in French chosen in consultation with the module co-ordinator. Guided stages (unassessed) of the dissertation to be submitted at various specified points during the year, across both semesters. The dissertation to be submitted in May.</p> <p>(ii) a 10-minute oral exam in French to be sat upon the student's return to St Andrews after the WIYA year, during which the year abroad experience will be presented and discussed.</p>				
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):	Erasmus Exchange			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V Turner			

FR4103 Translation Methodology 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
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 MA degrees involving French Related module: FR4104			
Pre-requisite(s):	FR3002 if taken, otherwise FR3001 or Erasmus+ year/semester abroad			
Required for:	FR4104			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D Evans			

FR4104 Translation Methodology 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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 MA degrees involving French			
Pre-requisite(s):	FR4103			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D E Evans			

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FR4105 Communication Skills in French 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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: 30 hours		Guided independent study: 120 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Herdman			

FR4106 Communication Skills in French 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Hugueny-Léger			

FR4116 Mediaeval Marvels: The Exotic, the East and the Other in Mediaeval French Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>Relations between the mediaeval Occident and Orient were highly complex during a period that saw violent crusades and interracial conflicts. Cases abound where notions of East and West merge and the East itself may even appear as no more than fantasy. Alongside the hideous monsters common to medieval epic, throughout the 12th-13th centuries there are many examples of fascination with the East that betray a desire to emulate its opulence as well as a fear of the foreign.</p> <p>This module consequently aims to introduce students to a variety of literary representations of the mediaeval East and its residents, focussing above all on representations of cultural difference, the marvellous, and the exotic. The set texts give students the chance to engage with theoretical questions of otherness, fantasy and gender in relation to the specific historical period in question and to develop their ability to work critically with primary materials.</p>				
Programme module type:	Optional for all degrees involving French			
Pre-requisite(s):	Permission of the French Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: Seminar, lecture and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr V Turner			
Module teaching staff:	Dr V Turner			

FR4123 Libertine Literature and Libertinage in Eighteenth-Century France				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module aims to familiarise students with libertinage, an essential literary, social and intellectual feature of the French eighteenth century.</p> <p>Students will study the erotic and pornographic productions of the Ancien Régime whilst examining the true meaning of 'erotic' and 'pornographic'. Students will therefore be invited to connect early modern preoccupations for instance about censorship and sexual freedom with current debates on such issues, and to think critically about them.</p> <p>The module's interdisciplinary approach to libertinage complements the literary focus of each seminars with references to philosophy, socio-cultural and intellectual history, visual arts, music and film adaptations.</p>				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M Ganofsky			
Module teaching staff:	Dr M Ganofsky			

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FR4126 Flaubert's France				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module focuses on the major works of Flaubert as prisms for understanding the ideological and aesthetic contexts of their times (1820-1870) and ours. Flaubert's exploration and representation of subjects including the taboo, and fictional transgressions of nineteenth-century literary norms make his works deeply relevant to investigating similar twenty-first-century issues and debates. Seminars explore texts in chronological order through a programme of prescribed passages for close reading, topics for class discussion and individual and group tasks involving engagement with secondary critical resources. One aim of the course is to ascertain what is transgressive and avant-garde in Flaubert's works. Another is to understand how literary works of the past can provide prescient insights into issues in contemporary France as a first-world culture. The overall structure of the course proactively facilitates textual/contextual analysis and synthesis as well as investigative learning.</p>				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	Permission of the French Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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 = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M Orr			
Module teaching staff:	Prof M Orr			

FR4127 Nineteenth-Century French Narratives of the Sea				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module takes students into new realms of engagement with (i) thematic criticism, and (ii) Nineteenth-century hybrid narrative forms blending fact and fiction that develop in response to different understandings of the natural world. By investigating how the sea has been variously seen, read, recorded and written in the century that established modern French natural/marine science disciplines, students will everywhere harness and step outside disciplinary frames for 'Modern Language' study. The 4 representative narratives on the module -- maritime travel writing, historiography, adventure narrative, submarine science fiction -- will be studied in different non-ML University classrooms e.g. MUSA, Gatty to contextualise students' investigations of particular issues, themes, topics, representations etc. concerning the sea covered in the module. Spearheaded by the course texts/contexts, students undertake an investigative project developing an aspect of 'sea writing' and its importance.</p>				
Programme module type:	Optional for French			
Pre-requisite(s):	Permission of the French Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 90-minute workshop seminar and 1 surgery hour (x 11 weeks)			
	Scheduled learning: 21 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%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof M Orr			
Module teaching staff:	Prof M Orr			

FR4128 A semester with Casanova: myths and afterlives of Histoire de ma vie				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module offers a new, intermedial perspective on a legendary - albeit still misunderstood - figure, Giacomo Casanova (1725-1798). The objective of this module is to go back to the sources of the myth by reading his memoirs (written in French): Histoire de ma vie. Through a critical and historiographical lens, we will analyse how and why he has been remembered as the epitome of the seducer. Whilst this module will duly inscribe Casanova within the eighteenth-century phenomenon of libertinage, our close study of his memoirs will also highlight that he was a man of the Enlightenment, with close connections to France and its culture. The first part of the semester will revolve around close readings of Casanova's memoirs. The second part of the semester will shift focus to look instead at later interpretations of Casanova's life across genres, centuries, and cultures, from Schnitzler's 1918 novel Casanova's Homecoming to Fellini's anti-homage film.				
Programme module type:	Optional for French			
Pre-requisite(s):	FR2201 and FR2202			
Learning and teaching methods and delivery:	Weekly contact: 2-hour tutorial (x 9 weeks) and an optional surgery hour (x 11 weeks)			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Re-assessment Essay = 100%			
Module coordinator:	Dr M Ganofsky			
Module teaching staff:	Dr M Ganofsky			

FR4150 Creative Writing in French				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Module capped at 12 students			
Planned timetable:	To be arranged.			
This module allows students to develop and improve writing techniques in French and to build self-critical awareness on the writing process. The development of reading and writing skills will be supported by the study of various types of texts (which may include short stories, poetry, autobiography and fiction). Teaching and learning will be workshop-based, with the use of textual and visual stimuli to trigger imagination and inspiration. Students will be expected to share extracts from their work in progress and to engage with their own, and other students', written productions, to re-work and improve pieces.				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	Permission of the French Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of tutorials (x 11 weeks) 1 weekly surgery hour (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (3 pieces) = 100%			
Re-assessment pattern:	A 2,500-word folder containing two creative writing pieces composed in French, accompanied by a reflective essay in English.			
Module coordinator:	Dr Elise Hugueny-Leger			
Module teaching staff:	Team taught			

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FR4161 Antillean Identities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	Mon and Wed - time TBC		
<p>What does it mean to be French and Caribbean? This module discusses literature from the French overseas departments of Martinique and Guadeloupe (the Antilles), islands which today have the same status in France as, for example, Calvados or Loire Atlantique, but whose majority population is descended from African slaves. Former colonies of France, the Antilles became overseas departments after World War Two. The historical experiences of slavery and colonisation have had a lasting effect on identity politics in Martinique and Guadeloupe: how do Antilleans identify themselves when their ancestors were slaves transported from Africa? How can they express their identity when the official language of the islands is the former colonial language of French? Through analysis of a range of French Caribbean texts, this module will introduce students to different ways of thinking about Antillean identity.</p>			
Programme module type:	Optional for French		
Pre-requisite(s):	FR2201 and FR2202		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 9 weeks) and 1 optional surgery hour		
	Scheduled learning: 19 hours	Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 10%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (presentation) = 10%, Coursework (essay) = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Prof N Hitchcott		
Module teaching staff:	Prof N Hitchcott		

FR4176 Recent Women's Writing in French: Theory and Practice			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	To be arranged.		
<p>What does it mean to write as a woman? What does it mean to write as a particular woman in a specific place, at a specific time? What, if anything, does the term 'women's writing' actually mean, and do we still need it? This module introduces students to some of the most important approaches to French feminist theory and literary studies since the publication of Simone de Beauvoir's <i>Le Deuxième sexe</i> in 1949. It then goes on to consider four novels by women writers publishing between the 1970s and the present, asking to what extent they can be read in terms of feminist theory, and how their representation of the social, cultural and artistic position of being a woman and a writer changes with the times.</p>			
Programme module type:	Optional for all MA degrees involving French		
Pre-requisite(s):	Permission of the French Honours Adviser		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture, 1-hour seminar and 1 surgery hour.		
	Scheduled learning: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr K Jones		
Module teaching staff:	Dr K Jones		

FR4180 Modern French Thought				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module will focus on the notions of identity and community as they have been thought and expressed in the twentieth and twenty-first centuries, at the intersection between philosophy, literature and film. What does it mean to be together or 'be with'? Who or what do we identify with? Who is 'we'? Who can say 'we' and on behalf of whom? These questions are relevant to the reflection on cultural as opposed to national identity, especially in the context of globalisation. Notions of migration(s), language, representation and participation will be central to this module. Authors on the programme will include H��l��ne Cixous, Jacques Derrida, Jean-Luc Nancy and Marc Cr��pon. This module will be taught primarily in French.</p>				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E L��ugt			
Module teaching staff:	Dr E L��ugt			

FR4181 Contemporary French Crime Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module introduces students to the tradition of French crime fiction and its contemporary manifestations. Via a survey of classic sub-genres of crime fiction from the early twentieth-century onwards, followed by close reading of texts by key contemporary (post-1985) crime writers, students will learn about: the historical background of the genre; how and where crime fiction is situated in the fields of 'popular culture' and literature in general; what different sub-genres of crime fiction exist. The module will focus both on the specific features of crime fiction (social/historical/political engagement of the set texts; narrative and linguistic strategies) and on the mutually illuminating relationship between genre fiction and 'high' literature.</p>				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Jones			

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FR4182 Goods and Ads: Consumerism in Modern France				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
How have writers and artists reacted to the rise of consumer society in modern France? To what extent does the desire to possess shape social and gender roles? These are some of the questions which this module intends to explore, drawing on a varied corpus encompassing literature, film, television, advertisement, and ranging from Emile Zola's <i>Au Bonheur des dames</i> to Frédéric Beigbeder's <i>99 Francs</i> . We will look at reactions to the rise of the bourgeois society, the use of objects in surrealist art, representations and criticisms of la société de consommation, as well as literary and sociological approaches to (anti-)consumerism, from the end of the nineteenth century to the turn of the new millennium.				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour, plus occasional and optional film/video viewing.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Hugueny-Leger			

FR4183 African Francophone Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
From Senegal to Rwanda, the former colonial language of French is spoken in 26 countries on the African continent. One of the important legacies of French and Belgian colonisation in Africa has been the emergence of African francophone literature. However, the African writer's relationship with the French language is a conflictual one, bound up with a history of colonial oppression. This module introduces students to fiction in French by writers from sub-Saharan Africa from the 1950s to the twenty-first century. Through the study of a selection of novels by major African authors, students will develop knowledge and understanding of the contexts of production of francophone African literature and the impact of colonisation on African literature in French, alongside a sophisticated analytical grasp of the literary works themselves.				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	Permission of the French Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 11 weeks), 1 seminar (x 6 weeks), 1 surgery hour (x 11 weeks) and 2 hours of compulsory film/video viewing over the semester			
	Scheduled learning: 19 hours		Guided independent study: 131 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N M Hitchcott			
Module teaching staff:	Prof N M Hitchcott			

FR4198 Dissertation on a French Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 no more than 5,000 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 Head 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 MA degrees involving French			
Pre-requisite(s):	FR3002 if taken, otherwise FR3001 or Erasmus year/semester abroad.			
Anti-requisite(s):	FR4199 or a 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 seminars and approximately 4 contact hours with the supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr G Bowd			

FR4199 Long Dissertation on a French Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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 Head 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 MA degrees involving French			
Pre-requisite(s):	FR3002 if taken, otherwise FR3001 or Erasmus+ year/semester abroad.			
Anti-requisite(s):	FR4198, or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 seminars and approximately 8 contact hours with the supervisor over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr G Bowd			

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FR5810 French Science Project Dissertation			
SCOTCAT Credits:	30	SCQF Level 11	Semester: Whole Year
Academic year:	2017/8		
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 MChem 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%		
Re-assessment pattern:			
Module coordinator:	Dr G P Bowd		

German (GM) modules

GM3005 German Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Frau K Mericka			
Module teaching staff:	Team taught			

GM3006 German Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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 audiovisual materials in a range of registers and tasks including reading comprehension, discussion, written responses, and review of aspects of grammar.				
Programme module type:	Compulsory for all degrees involving German			
Pre-requisite(s):	GM3005 unless the student spent Semester 1 on a university placement abroad in which case only the successful completion of the semester abroad is needed.			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	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: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Frau K Mericka			
Module teaching staff:	Team taught			

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GM3075 Thomas Mann - Doktor Faustus			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for Single and Joint Honours German		
Pre-requisite(s):	Permission of the German Honours Adviser		
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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr M White		
Module teaching staff:	Dr M White		

GM3081 Words and their Functions in Modern German			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	2.00 pm Tue and Thu		
<p>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.</p>			
Programme module type:	Optional for Single and Joint Honours German		
Pre-requisite(s):	Permission of the German Honours Adviser		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.		
	Scheduled learning: 18 hours	Guided independent study: 132 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr C Beedham		
Module teaching staff:	Dr C Beedham		

GM3101 German Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
<p>The objective of the module is language learning and cultural familiarisation through a work placement in a German-speaking country. Placements will be as Language Assistants in schools or on other assignments approved by the department.</p> <p>Formal learning and assessment will be through:</p> <p>(i) a supervised project of 5,000 words in German chosen in consultation with the module co-ordinator. Guided stages (unassessed) of the dissertation to be submitted at various specified points during the year, across both semesters. The dissertation to be submitted in May.</p> <p>(ii) a 10-minute oral exam in German to be sat upon the student's return to St Andrews after the WIYA year, during which the year abroad experience will be presented and discussed.</p>				
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 and GM2002, GM2004, GM2008 or GM2010.			
Anti-requisite(s):	GM3103 or Erasmus exchange.			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Cusack (TBC)			
Module teaching staff:	Team taught			

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GM4048 Art and the Artist in Modern German Culture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module explores how the figure of the artist has been mobilised by German writers, composers and filmmakers in their work in order to promote new concepts of aesthetics, and how the changing social and political context of Germany has shaped our understanding of what artistic activity entails. The first part of the module considers the status of artists/writers in pre-capitalist society and the Romantic notion of art as a supposedly 'autonomous' sphere. The second half of the module draws on the work of Walter Benjamin and Kafka and analyses the impact of modernity on artistic production. The last part of the module focuses on the political appropriation of art and the construction of national traditions in two diametrically-opposed contexts, the cinemas of the Third Reich and the former GDR. The module concludes with a consideration of the role of the female artist Käthe Kollwitz as an iconic symbol in both East and West during the run-up to German unification.</p>				
Programme module type:	Optional for German			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture/seminar per week (in some weeks the seminar/lecture will only be 1 hour) and 1 surgery hour.			
	Scheduled learning: 18 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 = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof S Allan			
Module teaching staff:	Prof S Allan			

GM4049 Language and Ideology in the GDR and West Germany from 1949 - 1989				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Beedham			
Module teaching staff:	Dr C Beedham			

GM4071 Shakespeare: The German Catalyst				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon Mon and 11.00 am Wed.			
<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			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 18 hours		Guided independent study: 132 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M White			
Module teaching staff:	Dr M White			

GM4073 Women in German Letters				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>Although today we take the participation of women in German letters for granted, the student of earlier periods cannot fail to observe that the pantheon of German literature contains few women. Yet women played a decisive part in constituting the field of German letters, as readers, authors, translators, critics and mediators. In this module students will encounter women writing in German who fulfil several of these roles. In the course of such encounters we shall address such issues as the historical canon, the accessibility of writing by women, and the influence of gender on literary work and the market for literature.</p>				
Programme module type:	Optional for German			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 or 2 hours of seminars per week and 2 practical classes over the semester and 1 surgery hour.			
	Scheduled learning: 18 hours		Guided independent study: 132 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Cusack			
Module teaching staff:	Dr A Cusack			

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GM4075 Berlin: Modernity and the Metropolis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module seeks to examine the particular role that Berlin has played in the development of German culture and politics (from late Wilhelmine Germany to its re-instatement as capital of a re-united Germany); to analyse the way in which the emblematic status of Berlin has been reflected in, and continues to exercise a decisive influence on, a variety of different art forms (including the novel, painting, cinema and architecture); to consider Berlin's dual role during the Cold War as a political and cultural capital on the border between East and West; to explore the concept of division - topographical, political, cultural and psychological - as reflected in Berlin and the texts it has inspired; to examine the relationship between past and present and the particular significance of cultures of memory in contemporary Berlin; and to determine the extent to which the city has managed to maintain a continuous identity in the face of repeated political upheaval.</p>				
Programme module type:	Optional for German			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 7 weeks), 1-hour lecture (x 4 weeks), 1 office surgery hour (x 11 weeks)			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof S Allan			
Module teaching staff:	Prof S Allan			

GM4084 German Monsters				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module examines the history of German fiction about monsters, with a focus on three key periods in German culture: the Middle Ages, Romanticism and Expressionism. It will enable students to use monstrosity, the uncanny, the undecidable and trauma as theoretical concepts; to determine the cultural functions of monsters; to explore the tensions that they embody; and to identify and reflect on changing and recurring fears and patterns in text and film over time.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar.			
	Scheduled learning: 18 hours		Guided independent study: 132 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

GM4092 East German Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	Permission of the German Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 18 hours		Guided independent study: 132 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Lawson			
Module teaching staff:	Dr C Lawson			

GM4098 Dissertation on German Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 no more than 5,000 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			
Pre-requisite(s):	Permission of the German Honours Adviser and Head of Department.			
Anti-requisite(s):	GM4099 or a 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and 4 contact hours with the supervisor in total over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Prof B Bildhauer			
Module teaching staff:	Team taught			

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GM4099 Long Dissertation on a German Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	Permission of the German Honours Adviser and Head of Department.			
Anti-requisite(s):	GM4098 or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and 8 contact hours with the supervisor in total over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Prof B Bildhauer			
Module teaching staff:	Team taught			

GM4105 German Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am or 3.00 pm Mon and 11.00 am or 3.00 pm Thu			
<p>This is a core language module for all students in the second year of the Honours Programme. It is designed to develop advanced written and oral language skills based on translation from and into German, while the oral part of the module will afford insight into communicative situations, strategies and approaches in a variety of contexts. Students will learn to recognise and analyse communication techniques and employ them effectively in different situations.</p>				
Programme module type:	Compulsory for all degrees involving German			
Pre-requisite(s):	GM3005 and GM3006 unless the student spent either or both semesters of Junior Honours on a university placement abroad in which case only successful completion of Junior Honours is needed.			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 50%, Coursework = 20%			
	As used by St Andrews: 1-hour Written Examination = 30%, Oral Examination = 30%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Cusack (TBC)			
Module teaching staff:	Team taught			

GM4106 German Language 4				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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 analysing 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			
Pre-requisite(s):	GM4105 unless the student spent Semester One on a university placement abroad in which case only the successful completion of the semester abroad is needed.			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 1-hour Essay in German Examination = 30%, Oral Examination = 30%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Frau K Mericka (TBC)			
Module teaching staff:	Team taught			

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Italian (IT) modules

IT3001 Italian Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	Permission of the Italian Honours Adviser	Required for:	IT3002	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rossignoli			
Module teaching staff:	Dr C Rossignoli			

IT3002 Italian Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	IT3001	Required for:	IT4003	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rossignoli			
Module teaching staff:	Dr C Rossignoli			

IT3035 Italian Detective Fiction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>Detective stories are enormously popular in Italy but the genre has generally been regarded as primarily Anglo-Saxon. The prominence of a number of Italian crime writers in the 1990's prompted talk of a giallo nazionale and a reconsideration of the history of the genre dating Italian crime fiction back to the nineteenth century. This module studies the history of the detective novel in Italy, considers critical approaches to the genre, and examines the treatment of common features and themes by writers such as Leonardo Sciascia, Giorgio Scerbanenco, Umberto Eco, Carlo Lucarelli, Lorian Macchiavelli, and Andrea Camilleri.</p>				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	Permission of the Italian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Wilson			
Module teaching staff:	Dr R Wilson			

IT3038 Primo Levi				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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			
Pre-requisite(s):	Permission of the Italian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof D Duncan			
Module teaching staff:	Prof D Duncan			

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IT3039 Emigrant Nation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The module looks at how the phenomenon of Italian mass emigration has been represented in Italian culture since 1960. Through the study of texts such as Melania Mazzucco's <i>Vita</i>, Carmine Abate's <i>Il muro dei muri</i>, and Laura Pariani's <i>Quando dio ballava il tango</i>, the module looks at how Italian identity is affected by cultural mobility across continents. The texts deal with emigration to a range of different locations - USA, Germany, Argentina, Australia - but the emphasis of the module is on how these texts construct Italy from a distance. The module looks at questions of home and belonging, cultural hybridity, emigrant language, and the various historical forces which prompted Italians to migrate.</p>				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	Permission of the Italian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof D Duncan			
Module teaching staff:	Prof D Duncan			

IT3101 Italian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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 a work placement in Italy. Placements will be as Language Assistants in schools or on other assignments approved by the department. Formal learning and assessment will be through:</p> <p>(i) a supervised project of 5,000 words in Italian chosen in consultation with the module co-ordinator. Guided stages (unassessed) of the dissertation to be submitted at various specified points during the year, across both semesters. The dissertation to be submitted in May.</p> <p>(ii) a 10-minute oral exam in Italian to be sat upon the student's return to St Andrews after the WIYA year, during which the year abroad experience will be presented and discussed.</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 External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Italian Study Abroad Coordinator			
Module teaching staff:	Italian Study Abroad Coordinator			

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IT4003 Communication Skills 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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):	IT3001, 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.			
	Scheduled learning: 20 hours		Guided independent study: 130 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)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Riccobono			
Module teaching staff:	Dr R Riccobono			

IT4004 Communication Skills 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms S Triggiano			
Module teaching staff:	Ms S Triggiano			

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IT4013 Modern Italy through Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module offers a perspective on historical as well as present views/conceptions of Italy, through the study of films by Italian directors such as: Luchino Visconti, Roberto Rossellini, Nanni Moretti and Gianni Amelio. There are about twenty screenings of selected cinematic texts in Italian with English subtitles. There is a greater in-depth analysis of between seven and nine films in classes. Students will be encouraged to develop their own critical approach through seminars and discussion. An element of Italian history will inform the module.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	Permission of the Italian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr R Riccobono			
Module teaching staff:	Dr R Riccobono			

IT4014 Female Literary Representations in the Italian Renaissance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
The module will explore the problematic relationship of women and culture in the early modern period by focussing on changes in the representation of the female in Italian literature in the course of the sixteenth century. Renaissance notions of the female self will be examined from differing perspectives, from the idealised forms of Petrarchism to the disenchanted reality of the courtesans. Key themes, such as the reinterpretation of mythological figures and the self-representation of female writers will be considered, as well as the work of writers such as Stampa, Fonte and Tullia d'Aragona.				
Programme module type:	Optional for all Degrees involving Italian			
Pre-requisite(s):	Permission of the Italian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rossignoli			
Module teaching staff:	Dr C Rossignoli			

IT4024 Authority and Subversion in Renaissance Italy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module studies literary experimentation in the Italian Renaissance and the more general rethinking of literature and poetry integral to this period. This is done through the study of burlesque, satirical and popular writing as well as more accepted forms of literature, by both mainstream and marginalized authors, such as Aretino, Basile, Berni, Cellini Folengo, Gelli, Michelangelo. Students will thus acquire a comprehensive understanding of the variety of Renaissance literary production, of the modernity and multiplicity of its forms, and of its subversive potential.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rossignoli			
Module teaching staff:	Dr C Rossignoli			

IT4028 The Twentieth-century Italian Novel				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module will look at a wide range of novels written over the course of the twentieth century in Italy in an attempt to chart representations of and reactions to the concept of modernity, as well as to examine the implementation and subversion of related modern narrative innovations in such works. Following a broad introduction to the literary context of the Italian twentieth century, we will proceed thematically, looking at questions of identity, genre (the subversion of typical forms), experimentation, gender and queer narratives.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	Permission of the Italian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Bond			
Module teaching staff:	Dr E Bond			

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IT4097 20-Credit Dissertation in Italian			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1 or 2
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the Final year of the Italian and Psychology Honours Programme.		
Planned timetable:	To be arranged.		
<p>The dissertation offers students the possibility of personal advanced study on an Italian topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 7,000 - 8,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Programme module type:	Optional for Italian and Psychology		
Pre-requisite(s):	Entry into Joint Honours Degree in Italian and Psychology (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%		
Re-assessment pattern:	Resubmission of Dissertation		
Module coordinator:	Head of Italian Department		

IT4098 Dissertation on an Italian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation offers students the possibility of personal advanced study on an Italian topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be no more than 5,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT3001, IT3002 or equivalent Study Abroad module			
Anti-requisite(s):	IT4097, IT4099 or 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and 4 hours with supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Head of Italian Department			

IT4099 Long Dissertation on an Italian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation offers students the possibility of personal advanced study on 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/)</p>				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT3001, IT3002 or equivalent Study Abroad module			
Anti-requisite(s):	IT4097, IT4098, or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and 8 contact hours with supervisor over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Head of Italian Department			

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Modern Languages (ML) modules

ML3101 Modern Languages Integrated Year Abroad			
SCOTCAT Credits:	60	SCQF Level 9	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students registered for a WIYA degree		
Planned timetable:	n/a		
<p>The objective of the module is language learning and cultural familiarisation through a combination of work placements or periods of approved study spent successively in two countries where the languages in the student's Honours degree programme are spoken. The particular components of this type of integrated year abroad 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 the proposed pattern of residence and work/study abroad.</p> <p>Formal learning and assessment will be through:</p> <p>(i) a supervised project of 5,000 words in one of the two target languages (4,000 words in Russian) chosen in consultation with the module co-ordinator. Guided stages (unassessed) of the dissertation to be submitted at various specified points during the year, across both semesters. The dissertation to be submitted in May.</p> <p>(ii) a 10-minute oral exam in the other of the two target languages to be sat upon the student's return to St Andrews after the WIYA year, during which the year abroad experience will be presented and discussed.</p>			
Programme module type:	Optional to any WIYA programme where a student spends time in more than one country.		
Pre-requisite(s):	Admission to Honours Programme with Integrated Year Abroad	Anti-requisite(s):	Any other whole year study abroad module
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%		
	As used by St Andrews: Coursework = 100% (Oral Examination = 20%, Dissertation = 80%)		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Various		

ML4794 Joint Dissertation (30cr)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
<p>The dissertation must consist of approximately 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint, Triple or 'with' Honours in the School of Modern Languages whenever allowed by departmental requirements.		
Pre-requisite(s):	A Letter of Agreement	Anti-requisite(s):	More than 30 credits in other dissertation / project modules
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: hours	Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		
Module coordinator:	As per Letter of Agreement.		

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Persian (PR) modules

PR3001 Higher Intermediate Persian 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	1.00 pm Mon and 4.00 pm Thu			
<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 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 module the students are expected to be competent in conversation at a higher intermediate to advanced level on a variety of topics (modern events and Iranian culture), in discussing a range of specific topics; for example, history, contemporary politics and literature, and in reading and translating modern standard Persian texts from newspapers, short stories, etc.</p>				
Programme module type:	Compulsory for Persian			
Pre-requisite(s):	PR2001, PR2002	Required for:	PR3002	
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Talajooy/ Dr M Ghorbankarimi			
Module teaching staff:	Dr S Talajooy/ Dr M Ghorbankarimi			

PR3002 Higher Intermediate Persian 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	1.00 pm Mon and 4.00 pm Thu			
<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 module the students are expected to be competent in conversation at a higher intermediate to advanced level on a variety of topics (modern events and Iranian culture), in discussing a range of specific topics; for example, history, contemporary politics and literature, and in reading and translating modern standard Persian texts from newspapers, short stories, etc.</p>				
Programme module type:	Compulsory for Persian			
Pre-requisite(s):	PR2001, PR2002, PR3001			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	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: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Talajooy/ Dr M Ghorbankarimi			
Module teaching staff:	Dr S Talajooy/ Dr M Ghorbankarimi			

PR3020 Key Texts in Modern Persian Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
Students will learn about key twentieth-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. The module is primarily designed to expose students to modern poetry and short stories and to improve and broaden students' knowledge of literary analysis in general and Persian literature and culture in particular. Students will be required to translate Persian poetry and prose passages into English and analyse them. This module will also address the sociopolitical contexts in which these literary works were produced.				
Programme module type:	Optional for Persian			
Pre-requisite(s):	Permission of the Persian Honours Adviser			
Co-requisite(s):	PR3001			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000 word essay			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Dr S Talajooy			

PR3021 Modern Iran through Cinema				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
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. No knowledge of Persian is required for this module, but students with a knowledge of Persian will be given access to Persian language material where appropriate.				
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 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M Ghorbankarimi			
Module teaching staff:	Dr M Ghorbankarimi			

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PR3022 Modernity and Iranian Drama				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
Students study five Iranian plays by Hassan Moqaddam, Bahram Beyzaie, Mohammad Yaqubi, Abbas Na'ibandian, and Nghmeh Samini, selected to trigger discussions about, modernity and its pitfalls, resistance and cultural transformation, and the aesthetics of modern drama. The students will also translate some passages of the plays and discuss their performing potential. While the course is language-based, the module is designed to broaden students' knowledge of the history of Iranian modernity, and the aesthetic qualities and cultural functions of Iranian drama and its relationship with world drama. It will also provide them with the opportunity to improve their textual analysis and write critical pieces in Persian.				
Programme module type:	Optional for Persian			
Pre-requisite(s):	PR2001, PR2002	Co-requisite(s):	PR3002	
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture and 1 surgery hour			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,500 - 5,000 word essay			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Dr S Talajooy			

PR4001 Advanced Persian 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	4.00 pm Mon & 2.00 pm Thu			
This module will build upon the skills gained in 3000-level modules. More emphasis will be placed on free composition in Persian and translation into Persian. Students will also give oral presentations in Persian, and a variety of materials representing different facets of Persian speaking culture will be used to broaden students' knowledge of the language.				
Programme module type:	Compulsory for Persian			
Pre-requisite(s):	PR2001, PR2002, PR3001, PR3002			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Dr S Talajooy			

PR4002 Advanced Persian 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	4.00 pm Mon & 2.00 pm Thu			
This module will build upon the skills gained in PR4001. As in PR4001, emphasis will be placed on free composition in Persian and translation into Persian. Students will give oral presentations in Persian, and a variety of materials representing different facets of Persian speaking culture will be used to broaden students' knowledge of the language.				
Programme module type:	Compulsory for Persian			
Pre-requisite(s):	PR2001, PR2002, PR3001, PR3002, PR4001			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	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: 2-hour Written Examination = 40%, Oral Examination 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Dr S Talajooy			

PR4020 Introduction to Classical Persian Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Entry to Persian honours programme			
Planned timetable:	To be arranged.			
This module will offer students the initial tools for reading classical Persian poetry and prose. It will provide the basic historical and analytical knowledge needed for the critical understanding of major genres and themes in classical Persian literature. It will also familiarize students with the literary schools instrumental in the development of the Persian literary heritage. Through the study of selected texts, students will learn about the figures of speech, poetic and prose structures and imagery common to classical Persian literary texts. They will also read brief biographies of several key figures in Persian classical literature and read and translate at least one sample work by each author.				
Programme module type:	Optional for Persian			
Pre-requisite(s):	Permission of the Persian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000 word essay			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Dr S Talajooy			

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PR4021 Female Identity in Contemporary Iran				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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. 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. No knowledge of Persian is required for this module, but students with a knowledge of Persian will be given access to Persian language material where appropriate.</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 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M Ghorbankarimi			
Module teaching staff:	Dr M Ghorbankarimi			

PR4098 Short Dissertation on a Persian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This is to give students the option of writing their dissertation on a topic in Persian to help develop their research skills and provide the opportunity for them to build a solid academic foundation should the students want to continue their studies. The dissertation offers students the possibility of personal advanced study on a topic in Persian on which they already have adequate knowledge and for which a suitable supervisor can be found. Guidance will be offered on research methods, perspective and presentation. The dissertation will, as a rule, consist of a study of a given body of primary material analysed with reference to a number of secondary texts on the primary material with a given perspective. It should be no more than 5,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English.</p>				
Programme module type:	Optional for Persian			
Pre-requisite(s):	PR2001, PR2002, PR3001, PR3002			
Anti-requisite(s):	PR4099 or any 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and 4 contact hours with supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr S Talajooy			
Module teaching staff:	Dr S Talajooy			

PR4099 Long Dissertation on a Persian Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged.		
<p>This is to give students the option of writing their dissertation on a topic in Persian to help develop their research skills and provide the opportunity for them to build a solid academic foundation should the students want to continue their studies. The dissertation offers students the possibility of personal advanced study on a topic in Persian on which they already have adequate knowledge and for which a suitable supervisor can be found. Guidance will be offered on research methods, perspective and presentation. The dissertation will, as a rule, consist of a study of a given body of primary material analysed with reference to a number of secondary texts on the primary material with a given perspective. Its length should be 10,000 words maximum and the dissertation is normally written in English.</p>			
Programme module type:	Optional for Persian		
Pre-requisite(s):	PR2001, PR2002, PR3001, PR3002		
Anti-requisite(s):	PR4099 or any 30-credit dissertation in another subject		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars and 8 contact hours with supervisor over the year.		
	Scheduled learning: 11 hours	Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Re-assessment pattern:	Resubmission of Dissertation		
Module coordinator:	Dr S Talajooy		
Module teaching staff:	Dr S Talajooy		

Modern Languages - Honours Level - 2017/8 - August 2017

Russian (RU) modules

RU3001 Advanced Russian Language 1, Part 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module is mandatory for all Honours programmes containing a Russian element, except for programmes which include RU3101. It is designed to build on the level of language competence attained at the end RU2202 or RU2204. The module deals with grammar, the practical problems of translation from and into Russian, and introduces essay-writing in Russian. Oral tuition forms an important element of this module.				
Programme module type:	RU3001 or RU3005 is compulsory for all Russian degrees			
Pre-requisite(s):	Average of 11 or better in any two of RU2201, RU2202, RU2203, RU2204.			
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: 33 hours		Guided independent study: 117 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

RU3002 Advanced Russian Language 1, Part 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
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: 33 hours		Guided independent study: 117 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

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RU3005 Advanced Russian Translation 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module is designed to build on the language proficiency attained through a period of study in Russia, on RU3101 or RU3102 or ML3101 (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, RU3102 or ML3101 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: 30 hours		Guided independent study: 120 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

RU3024 A Special Russian Author of the Nineteenth Century: Pushkin				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
The module is designed to build on the knowledge of nineteenth-century Russian literature acquired at sub-honours level, with particular concentration on one major author. Authors offered may include: Pushkin, Gogol, Tolstoy, Dostoevsky, or Chekhov, examining especially those works that are not covered in sub-honours modules. Independent study will form a major element of the module.				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Permission of the Russian Honours Adviser			
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%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Finer			
Module teaching staff:	Dr E Finer			

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RU3043 Theatre and Performance in Twentieth-Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module examines theories and practices of theatre and performance through study of major Russian dramatists, composers and directors. In particular, the module considers the ways in which tensions between psychological realism and festive theatricality, Stanislavsky's and Meyerhold's rival directorial principles, come to bear on 20th century Russian and Soviet drama.</p> <p>The module draws on a variety of media and cultural texts including drama, (rock)opera and silent film. Texts are analysed in their cultural contexts and assessed as both a reflection of contemporary concerns and politics and an attempt to influence and shape them. Students will explore visual languages of the stage by considering usage of theatrical space, set and costume design as an integral part of performance. Negotiation, interpretation and translation of text onto stage will be addressed through study of iconic productions.</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Permission of the Russian Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour. 2 hours film viewing over the semester.			
	Scheduled learning: 18 hours		Guided independent study: 132 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 = 25%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J Gardiner			
Module teaching staff:	Dr J Gardiner			

RU3044 Russia's Literary Easts				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module will explore the peculiarities of Russian "Orientalism" through a number of key literary works about the Caucasus and Central Asia. The aims of the course are threefold: to introduce students to this signature body of literature, to expose them to contemporary debates about Russian and Soviet imperial culture, and to examine the relationship between Russian modernist literature and its forebears. Students will consider the establishment of foundational literary myths about Russia's "Orient" in the "Golden Age," as well as the problem of how Russian literature served the empire, before moving on to a range of later works that reconsider the relationship between Russia and its "Eastern" borderlands. The syllabus will include works by such authors as Derzhavin, Pushkin, Lermontov, Tolstoy, Dostoevsky, Blok, Bely, Mandelstam, and Platonov.</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture in first week followed by 2-hour seminars (x 10 weeks).			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K Holt			
Module teaching staff:	Dr K Holt			

RU3101 Russian Integrated Year Abroad			
SCOTCAT Credits:	60	SCQF Level 9	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	May be subject to restrictions from receiving country.		
Planned timetable:	Please Contact Department		
<p>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. Assessment will be through:</p> <p>(i) a supervised project of 4,000 words in Russian chosen in consultation with the module co-ordinator. Guided stages (unassessed) of the dissertation to be submitted at various specified points during the year, across both semesters. The dissertation to be submitted in May.</p> <p>(ii) a 10-minute oral exam in Russian to be sat upon the student's return to St Andrews after the WIYA year, during which the year abroad experience will be presented and discussed.</p>			
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, Average of 11 or better in any two of RU2201, RU2202, RU2203, RU2204.		
Anti-requisite(s):	RU3102 or Erasmus exchange.	Required for:	RU3005
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	TBC		
Module teaching staff:	TBC		

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RU3102 Semester of Study in Russia				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	1 and 2 (taught twice)
Academic year:	2017/8 & 2018/9			
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 in July. 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			
Pre-requisite(s):	Either Average of 11 or better in any two of RU2201, RU2202, RU2203, RU2204 if RU3102 is taken in Semester 1; or RU3001 if RU3102 is taken in Semester 2			
Required for:	RU4101	Anti-requisite(s):	RU3101	
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

RU3110 Advanced Russian Translation 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module builds on the written and spoken language skills developed in RU3005 by students who have spent a period of study in a Russian-speaking environment. Spoken Russian is improved through small group tuition with a native Russian language instructor. There are regular translation exercises grammar classes and oral presentations.</p>				
Programme module type:	RU3002 or RU3110 is compulsory for all Russian degrees unless a semester abroad is taken			
Pre-requisite(s):	RU3005	Anti-requisite(s):	RU3002	
Required for:	RU4101			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

RU4101 Advanced Russian Language 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
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	
Learning and teaching methods and delivery:	Weekly contact: 1 language class, 1 oral class and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

RU4104 Russian Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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			
Pre-requisite(s):	RU4101	Anti-requisite(s):	RU4102	
Learning and teaching methods and delivery:	Weekly contact: 1-hour oral class, 1 surgery hour, 1-hour video class or written work.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

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RU4133 Russian Children's Literature (1900 - 2015)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>Children's books are shaped by the pedagogical and political concerns of adults; as such, they are an excellent introduction to Russian twentieth and twenty-first century cultural policy. We will explore how children's literature mirrors society and aims to influence it. Three main thematic areas will be studied: socially-responsible literature; criminality and reform; classics and curricula. The module will involve close reading and the study of institutions that shape the canon: publishers, schools, censors, libraries, journals, the market, the state, the church, and the Internet. In addition to reading the selected texts, students will research their own material online by reading and presenting on magazines and journals published by the Russian State Children's Library Archive.</p>				
Programme module type:	Optional for Russian			
Pre-requisite(s):	Permission of the Russian Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 optional surgery hour			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Finer			
Module teaching staff:	Dr E Finer			

RU4142 The Fantastic in Nineteenth-Century Russian Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The fantastic is a genre which interrogates the boundaries between the natural and the supernatural in order to provoke interpretative ambiguity. Developing out of the romantic tradition and alongside the rise of the realist novel, the fantastic enjoyed considerable popularity in Russia and was practised by many of its most notable writers. This module builds on the knowledge of nineteenth-century literature acquired at sub-honours level as students read examples of the fantastic by such writers as Pogorel'skii, Pushkin, Zagoskin, Gogol', Odoevskii, Lermontov, Turgenev, Dostoevskii, Garshin and Chekhov. Analysis of the chosen texts will make reference to theories of the fantastic proposed since c.1950 as well as to narrative theory.</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.			
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% (2 essays)			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr C E Whitehead			
Module teaching staff:	Dr C E Whitehead			

RU4143 Gender in Russian Literature and Culture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module is designed to build on the knowledge of Russian literature and culture acquired at sub-honours level, focusing in particular on issues of gender. Some of the most important writers of the nineteenth, twentieth and twenty-first centuries will be studied (such as Ivan Turgenev, Nikolay Chernyshevsky, Isaac Babel, Vladimir Mayakovsky, Mikhail Bulgakov, Alexandr Solzhenitsyn), alongside women writers, more recently added to the canon (this may include works by Karolina Pavlova, Nadezhda Durova, Anna Akhmatova, Lyudmila Petrushevskaya). The module will explore how culturally specific Russian instantiations of ideas about femininity, masculinity and queerness interact with Western theories of gender and sexuality'. Focusing on both traditional and subversive representations of gender, students will examine their development from the mid-nineteenth century to present day. Independent reading and study will form a major element of the module.</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Permission of the Honours adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar an optional surgery hour			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M Vaysman			
Module teaching staff:	Dr M Vaysman			

RU4153 Voices of the Russian Enlightenment				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module is designed to build on the knowledge of Russian literature and culture acquired at sub-honours level, focussing in particular on texts from the period of the Russian Enlightenment. Students will study some of the most significant texts of eighteenth-century Russian literature (which may include Gavrila Derzhavin's poetry, Mikhailo Lomonosov's treatises, Denis Fonvizin's plays, the prose of Nikolai Karamzin and Alexander Radischev), as well as a number of historically significant non-fictional texts such as the private correspondence of Catherine the Great and her courtiers, travelogues and autobiographies. The module focusses on the culturally and historically specific patterns of the development of individual narrative voices in eighteenth-century Russia, examining the selected texts in the general context of the European Enlightenment. Independent reading and study will form a major element of the module.</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	RU2202 or RU2204			
Learning and teaching methods and delivery:	Weekly contact: 1.5 seminars (x 11 weeks), 1 module surgery hour (x 11 weeks)			
	Scheduled learning: 17 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework (2 essays) = 100%			
Module coordinator:	Dr M Vaysman			
Module teaching staff:	Dr M Vaysman			

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RU4198 Dissertation on a Russian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
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 no more than 5,000 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>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Permission of the Russian Honours Adviser			
Anti-requisite(s):	RU4199 or a 30-credit dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 4 contact hours with the supervisor plus 3 x 1-hour seminars over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr E Finer			

RU4199 Long Dissertation on a Russian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>The dissertation offers students the possibility of personal advanced study on a topic which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with both the research co-ordinator and the potential supervisor. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Permission of the Russian Honours Adviser			
Anti-requisite(s):	RU4198 or a dissertation in another subject			
Learning and teaching methods and delivery:	Weekly contact: 8 contact hours with the supervisor plus 3 x 1-hour seminars over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	TBC			

Spanish (SP) modules

SP3001 Spanish Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue			
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):	Pass with an average of grade 11 or better in all SP modules taken.	Required for:	SP3002	
Learning and teaching methods and delivery:	Weekly contact: 1 class, 1 practical and 1 surgery hour (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	TBC			

SP3002 Spanish Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue			
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	
Learning and teaching methods and delivery:	Weekly contact: 1 class, 1 practical and 1 surgery hour.			
	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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J Letrán			

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SP3006 Literary Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am - 10.30 am Wed			
<p>This module is designed to guide and train the student of the Spanish language in the translation of demanding literary texts, both from and into Spanish. The emphasis will be on practical translation. The source texts will be chosen so as to represent a variety of periods, genres and registers. The module has a complementary relationship to language work in the core language modules. It will require systematic use of sources of information about Spanish (e.g. dictionaries, grammars). Emphasis will be placed on the quality of the translation. To achieve that end, the module will be conducted in seminar mode in order to stimulate discussion and revision of draft translations.</p>				
Programme module type:	Optional for all degrees involving Spanish, once compulsory modules have been taken.			
Pre-requisite(s):	Permission of the Spanish Honours Adviser			
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: 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof G San Román			
Module teaching staff:	Prof G San Román			

SP3011 History of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 3.30 pm Fri			
<p>The module explores the evolution of Spanish from Latin to the seventeenth century. A prior knowledge of Latin is not expected. In addition to linguistic and socio-political history, the module involves an introduction to the works of Spanish linguists of the period.</p>				
Programme module type:	Optional for a degrees involving Spanish, once compulsory modules have been taken.			
Pre-requisite(s):	Permission of the Spanish Honours Adviser			
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: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr K Anipa			

SP3101 Spanish Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
<p>The objective of the module is language learning and cultural familiarisation through a work placement in a Spanish-speaking country. Placements will be as Language Assistants in schools or on other assignments approved by the department.</p> <p>Formal learning and assessment will be through:</p> <p>(i) a supervised project of 5,000 words in Spanish chosen in consultation with the module co-ordinator. Guided stages (unassessed) of the dissertation to be submitted at various specified points during the year, across both semesters. The dissertation to be submitted in May.</p> <p>(ii) a 10-minute oral exam in Spanish to be sat upon the student's return to St Andrews after the WIYA year, during which the year abroad experience will be presented and discussed.</p>				
Programme module type:	Compulsory for all degrees involving Spanish with Integrated Year Abroad			
Pre-requisite(s):	SP2002. Admission to the Honours Programme with Integrated Year Abroad.			
Anti-requisite(s):	SP4102 or Erasmus exchange.			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr K Anipa			

SP3121 Spanish American Literature I (Gauchos and Indians)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	9:00 am - 10:30 am Wed			
<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			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
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: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof G San Roman			
Module teaching staff:	Prof G San Roman			

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SP3122 Spanish American Literature 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 10.30 am Wed			
The aim of the module is to study a topic or genre in Spanish American literature. The module includes texts which are not particularly Latin American in their depiction of historical or cultural aspects of the continent, such as modernismo, River Plate cosmopolitanist literature or the novel of the Boom. The selection is likely to include three or four works by the following authors: Borges, Onetti, Cortazar, Donoso, Sabato, Garcia Marquez, Rosario Castellanos, Alfonsina Storni, Juana de Ibarbourou. Apart from general and historical introductions, the course proceeds on the basis of seminar papers by students.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
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: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof G San Roman			
Module teaching staff:	Prof G San Roman			

SP3138 Mexico in the Nineteenth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
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.			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof W M Fowler			

SP3145 Post-1975 Writing in Spain 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<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.			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J Letrán			
Module teaching staff:	Dr J Letrán			

SP3147 The Art of Subversion in Post-War Spain (1939-1975)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<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 José Hierro, Ángel Gonzalez, Gloria Fuertes, Jaime Gil de Biedma, and José Ángel Valente, amongst others) and cinema (typically, L. García Berlanga, J. A. Bardem, B. Martín Patino, V. Erice, C. Saura, etc).</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.			
Pre-requisite(s):	Pass at Grade 11 (average) or better in both SP2001 and SP2002, or SP2005 and SP2002.			
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: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J Letrán			
Module teaching staff:	Dr J Letrán			

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SP3148 The Argentine and Chilean Avant-Garde (1920s-1930s)			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	To be arranged.		
This module is designed to introduce students to the Argentine and Chilean avant-garde poetry of the interwar period through the work of three internationally acclaimed authors: Jorge Luis Borges (Fervor de Buenos Aires, 1923), Oliverio Girondo (Veinte poemas para ser leídos en el tranvía, 1922) and Vicente Huidobro (Altazor, 1931). Its aim is to examine the literary modernisms of Chile and Argentina, probing issues of cultural nationalism, 'Latin Americanness', aesthetic syncretism and urban space.			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken		
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004		
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: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr E Kefala		
Module teaching staff:	Dr E Kefala		

SP3157 Autobiographical Writing in Twentieth-Century Spain			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8		
Planned timetable:	To be arranged.		
In this module the exploration of autobiographical writing in contemporary Spain has multiple objectives. It will provide an introduction to the problems and characteristics of autobiographical writing as an important literary genre. These theoretical tools will be applied to a problematic and ambiguous example (Lazarillo de Tormes) as well as to the works of major writers who have had an impact on their society (Rafael Alberti, Carmen Martín Gaité, Terenci Moix). It will also consider the texts as interventions in the cultural and historical context as well as identity debates in contemporary Spain. In this context, exile, popular culture, collective identity and the relations of genre and gender will be studied in relation to autobiographical writing.			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.		
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004		
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: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr R Fernández Romero		
Module teaching staff:			

SP3158 Representations of the Urban: Twentieth-Century Buenos Aires				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
By the 1920s, Buenos Aires was the largest and most cosmopolitan city of Latin America due to massive migration from Europe, particularly from Italy. This had a drastic effect on the socioeconomic and cultural topography of the city and raised complex ideological and cultural issues. This module explores representations of Buenos Aires in the interwar period across a range of disciplines, namely literature, cinema, photography and painting.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken, except Minor 'with Spanish' degrees			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Kefala			
Module teaching staff:	Dr E Kefala			

SP3160 Facing the New: Spanish Literature and Society (1888 - 1918)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
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 Jose Martinez Ruis 'Azorin') as well as the cultural and artistic life of the times through the analysis of literary magazines.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
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: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr R Fernández Romero			
Module teaching staff:	Dr R Fernández Romero			

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SP3162 Strange Girls and Domestic Angels: Women's Writing in Spain			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	2.00 pm - 3.30 pm Thu		
<p>This module introduces writing by women during and after the Franco dictatorship in Spain and trace the developments in female-authored literature that went hand in hand with social and political change. Despite the regime's insistence on their secondary status and the dismissal of their writing as trivial, several important female writers emerged during the Franco period and their works engage with issues of gender and identity, as well as questions of freedom and conformity. The module will explore how they conveyed a subversive message and portrayed alternative role models to a female readership despite restrictions. The module will also consider how later generations, while echoing some of the same concerns, also draw on Anglo-American traditions in their work. A selection of literary texts by authors such as Carmen Laforet, Rosa Chacel, Carmen Martin Gaité, Ana María Matute, Josefina Aldecoa, Rosa Montero, Lucía Etxebarria and Belén Gopegui will be studied.</p>			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.		
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004		
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: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr C O'Leary		
Module teaching staff:	Dr C O'Leary		

SP3163 Tales of the Nation			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2018/9		
Planned timetable:	2.00 pm - 3.30 pm Tue		
<p>The purpose of this module is to study a variety of fictional and non-fictional narratives of the Spanish nation-state as well as stateless nations within the Spanish state from the modern and contemporary period.</p>			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.		
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004		
Co-requisite(s):	Compulsory modules for Single, Joint and Major Spanish programmes		
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.		
	Scheduled learning: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Prof J Larios		
Module teaching staff:	Prof J Larios		

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SP3222 Love and Loss				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 3.30 pm Thu			
<p>Love and loss have been the inspiration, in one way or another, behind most works in world literature. This module aims to provide a sound understanding of important literary works from Spain and Spanish America that explore these complex emotions. The syllabus involves a selection of canonical or critically acclaimed Spanish texts representing different genres, gender authorial perspectives, visions of sexuality, and historical moments, as in the following potential instances: the Romantic play, Don Juan Tenorio (1844); the Realist novel, La Regenta (1885); the Modernista poetry collection, Los cálices vacíos (1913); and the contemporary fiction, Beatriz y los cuerpos celestes (1998). Aspects to be explored are likely to include some or all of the following: loyalty and deception; fulfillment and disappointment; passion and affection; jealousy and revenge. In sum, the whole gamut of emotion in connection with a theme which, more than any other, expresses our humanity.</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
Co-requisite(s):		Required for:		
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 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%			
Re-assessment pattern:	Coursework - 100%			
Module coordinator:	TBC			

SP4003 Spanish Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue			
<p>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 which provide the basis for both written and oral work in class.</p>				
Programme module type:	Compulsory for all degrees involving Spanish.			
Pre-requisite(s):	SP3002 (see Honours Adviser in cases of study abroad).			
Anti-requisite(s):	SP4102, SP4103	Required for:	SP4004	
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Fernández Romero			
Module teaching staff:	Dr R Fernández Romero			

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SP4004 Spanish Language 4: Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
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. The final oral examination will form part of this module.				
Programme module type:	Compulsory for all degrees involving Spanish.			
Pre-requisite(s):	SP4003 or SP4102			
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Fernández Romero			
Module teaching staff:	Dr R Fernández Romero			

SP4012 Linguistic Study of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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:	Optional for all degrees involving Spanish once compulsory modules have been taken.			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
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: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr K Anipa			
Module teaching staff:	Dr K Anipa			

SP4013 Culture and Conflict: Representing the Spanish Civil War				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Planned timetable:	2.00 pm - 3.30 pm Thu			
This module considers how the Spanish Civil War has been represented in culture over time, from contemporary literary responses to the testimonial writings of post-war exiles and the fictional representations of subsequent generations. Students will explore such issues as the tensions between culture and politics (propaganda, censorship, etc.), the reliability of memory texts, the 'memory boom' in recent Spanish fiction and post-memory. A selection of literary texts and film will be studied.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.			
Pre-requisite(s):	Permission of the Spanish Honours Adviser			
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 and occasional film/video viewing			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr C O'Leary			
Module teaching staff:	Dr C O'Leary			

SP4014 Spanish Avant-garde(s)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	3.00 pm - 4.30 pm Tue			
This module will examine the concepts of 'modernity', 'modernism' and the 'avant-garde' in the context of Spanish culture in the 1920s and 1930s; it will contextualise José Ortega y Gasset's reflections on 'new art' or 'dehumanised art'; it will take stock of Ortega's theory of the novel; it will explore the critique of Western values and the celebration of desire in the work of surrealist poets; it will analyse representations of the life (vitalism)/reason (rationalism) dichotomy in the work of fiction writers; and it will look at the use of the 'mythical method' by those very same writers.				
Programme module type:	Optional for Spanish			
Pre-requisite(s):	Permission of the Spanish Honours Adviser			
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: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof J Larios			
Module teaching staff:	Prof J Larios			

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SP4015 Action Heroes and Anti-heroes in Early-Modern Spain			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	9.30 am - 11.00 am Tue		
<p>This module will introduce prose, poetry, theatre, and songs that were written mostly for entertainment in the sixteenth and seventeenth centuries in Spain. All works will center around a single protagonist who creates sympathy and enthusiasm in the audience by committing acts of bravery, daring, and cleverness. He or she thus becomes a hero (or heroine) or anti-hero (or anti-heroine) depending on the legality of the act, and the opinion of the audience. Works studied for this module feature superhero-like knights, real stories from soldiers of fortune, but also violent men and women on the wrong side of the law.</p>			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.		
Pre-requisite(s):	Permission of the Spanish Honours Adviser		
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: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr T Bergman		
Module teaching staff:	Dr T Bergman		

SP4016 Contemporary Galician Women Writers			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	To be arranged.		
<p>This module provides students with a sound knowledge and understanding of contemporary narrative by Galician women writers. The module equips students with the necessary theoretical frameworks on feminism and women's writing to explore themes such as displacement, memory, creativity and identity. A range of novels by writers with diverse views on issues relating to gender, politics and language will be analysed in order to explore the many competing discourses in contemporary Galician culture, including nationalism, centralism and cosmopolitanism. The particular focus on Spanish-language work by writers from Galicia allows for access to Galician culture through the medium of Spanish. By the end of the module, students will have developed a broad understanding of the social, cultural, geographical and political factors which inform contemporary writing by Galician women.</p>			
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.		
Pre-requisite(s):	Permission of the Spanish Honours Adviser		
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: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr C Barbour		
Module teaching staff:	Dr C Barbour		

SP4098 Dissertation on a Spanish Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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 no more than 5,000 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/)</p>				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken.			
Pre-requisite(s):	Permission of the Spanish Honours Adviser	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 x 1-hour seminars plus 4 contact hours with supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr T Bergman			
Module teaching staff:	TBC			

Modern Languages - Honours Level - 2017/8 - August 2017

SP4099 Long Dissertation on a Spanish Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the Final year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>The dissertation offers students the possibility of personal advanced study on 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:	SP4099 is required for students taking SP4102		
Pre-requisite(s):	Permission of the Spanish Honours Adviser		
Anti-requisite(s):	SP4098 or dissertation in another subject		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour seminars plus 8 contact hours with supervisor over the year.		
	Scheduled learning: 11 hours	Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Re-assessment pattern:	Resubmission of Dissertation		
Module coordinator:	Dr T Bergman		
Module teaching staff:	TBC		

SP4102 Semester with Study Abroad in Spain			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2017/8		
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 (SP4102 with SP4099) is compulsory for all degrees involving Spanish.		
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 External Placement module		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr K Anipa		

SP4223 History and Culture in Spanish Texts				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
Focusing on a variety of texts from different periods and geographical areas in the Spanish-speaking world, this module aims to provide the student with a questioning understanding of the importance of the past and the different ways in which the past can be represented depending on the creator's own historical context, intentions and knowledge. In other words, this module will explore how several highly significant historical moments have been represented through fictions. The syllabus will involve the study of a selection of canonical texts from Spain and Spanish America, ranging from the Renaissance to the present day, that raise issues related to the link between history, memory and cultural expression.				
Programme module type:	Optional for all degrees involving Spanish once compulsory modules have been taken			
Pre-requisite(s):	Permission of the Spanish Honours Adviser	Anti-requisite(s):	SP4102	
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof J Larios			

SP4224 Reality and Illusion				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	9.30 am - 11.00 am Tue			
This module centres on the study of Don Quijote, by Miguel de Cervantes, and its cultural and literary impact. It 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 involves the study of a selection of canonical texts from Spain and Spanish America, with most time spent on Cervantes's novel. The module examines how illusion cuts across literary, psychological and moral facets, including satire, parody, genre-mixing, and future interpretations such as the Romantic view of the novel or twentieth-century rewritings; modern characterisation and character development, and the creation of realistic figures in a fictional reality-based world; and the themes of good, evil, justice, the rights of the individual versus the collective, and the ability of fiction to benefit people or do them harm.				
Programme module type:	Optional for Honours Spanish			
Pre-requisite(s):	Permission of the Spanish Honours Adviser			
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: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Bergman			

School of Philosophical, Anthropological & Film Studies

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Film Studies (FM) modules

FM4099 Film Studies Dissertation			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1 or 2
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>The 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. Students will have the chance to work closely with a supervisor as they develop their project, and further 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 module convenor and chosen supervisor. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Programme module type:	Compulsory for Single Honours Film Studies Optional for Joint Honours Film Studies		
Pre-requisite(s):	FM2001 and FM2002	Anti-requisite(s):	Any other 4000-level dissertation module
Learning and teaching methods and delivery:	Weekly contact: Initial 2-hour seminar, followed by presentation and individual meetings with supervisor		
	Scheduled learning: 10 hours	Guided independent study: 290 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr L Torchin (S1) Dr P Flaig (S2)		
Module teaching staff:	Team taught		

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4102 Film and Politics			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	12.00 noon - 2.00 pm Tue (Screenings: 4.30 pm to 8.00 pm Thu)		
<p>Lenin famously called cinema "the most important art," and since at least the 1920s, filmmakers and theorists have explored the politics of cinema and cinema's potential as politics. Students in this module shall explore the relationship between cinema and politics by studying the theory and practice of political filmmaking. Historical readings and political writings will be assigned so that the students will have a greater understanding of the context in which the films and accompanying theory were produced. Topics examined typically include, but will not be limited to, cinema in post-revolutionary Russia and Cuba, postcolonial cinema in Africa and Asia, Third Cinema, Weimar cinema and the Frankfurt School, and new forms of resistance using digital media. For 2017/18, the module will explore the work of filmmaker-theorists from around the globe to examine the relationship between theory and practice. All readings will be by the filmmakers whose films will be screened.</p>			
Programme module type:	Optional for Film Studies		
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening (of up to 3 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%		
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%		
Module coordinator:	Dr D Hanlon		
Module teaching staff:	Dr D Hanlon		

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4108 Cinema and Media in the Digital Age				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	12.00 noon - 2.00 pm Mon (Screenings: 7.00 pm - 9.30 pm Mon)			
This module provides an examination of how digital technology has transformed every aspect of the film industry, and of how these transformations have subsequently affected film studies. For digital technology (computers, cameras, etc) has shaped not just the Hollywood film industry, but all film industries everywhere, at all stages of film production, distribution and exhibition, and in all genres. The module will take in a range of films and other texts from different regions, including the USA, Europe and Asia, straddling big budget spectacles, costume dramas, documentaries, games and more.				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr M Cowan			
Module teaching staff:	Dr M Cowan			

FM4109 Film and the Archive				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Mon (Screenings: 4.30 pm - 7.00 pm Mon)			
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.				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr T Rice			
Module teaching staff:	Dr T Rice			

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4114 Film Genres				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>Film Genres will re-examine, and problematise, film genre today by exploring the topic in a variety of contexts. The module will incorporate a combination of approaches (theoretical, industrial and textual) and, in its assessments, will encourage students to think innovatively about, amongst other things, genre markers, global industry practice and exhibition culture. The module will ordinarily be organised in related clusters. These clusters may include, but will not be limited to: Genre studies in Classical Hollywood; Genre and authorship (e.g. Hitchcock, Ford, Miike, Woo); Genre and Stars (eg. Clint Eastwood, Jackie Chan, Hugh Grant); Historicising Genre; Global genres; Genre and adaptation; Genre hybrids; Genre and blockbusters; Film Noir as a genre, cycle or mood; Genre and violence; Asian Genres; Genre and studios.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening (up to 3 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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

FM4115 Sensory Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Mon (Screenings: 4.30 pm - 7.00 pm Tue)			
<p>This module considers the sensory qualities of cinema, a subject which engages variously with the film-as-object, film form and the spectator as active participant. The first half of the module draws on the main philosophical strands used by film scholars to conceptualise the affect of cinema, and then explores the ways film theory and criticism have sought to account for the sensuous or material nature of film. With these perspectives in mind, the second half considers the materialities of film form in more detail. The module explores the topic of filmic affect through a range of case studies and will draw on a diverse mix of references, including interviews with filmmaking personnel.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening (up to 3 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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr L F Donaldson			
Module teaching staff:	Dr L F Donaldson			

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4116 Stars				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue (Screenings: 4.30 pm - 8.00 pm Tue)			
<p>This module approaches stardom as one of the most exciting, complex, and crucial components of the filmic experience, exploring its aesthetic, cultural, ideological, and industrial sides. Students will be introduced to key theoretical frameworks in Star Studies, and to a representative range of stars. Topics may include the beginning of the star system and the emergence of film fandom, the conflictive meanings of star images, audience desire and star cults, the relation of stars to social representations and politics, and to gender and sexuality. Stars covered may include Rudolph Valentino, Leslie Cheung, Sophia Loren, Will Smith, Greta Garbo, Amitabh Bachchan, and Dirk Bogarde. Students will have the opportunity to research and write on a star of their choice.</p> <p>Please Note: the required viewing for this module is two films per week.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening (up to 4 hours).			
	Scheduled learning: 66 hours		Guided independent study: 234 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr E Girelli			
Module teaching staff:	Dr E Girelli			

FM4120 Silent Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	10.00 am - 12.00 noon Tue (Screenings: 4.30 pm - 8.00 pm Thu)			
<p>The period of silent cinema oversaw the emergence of crucial aspects that would come to characterize cinema as both an industry and an artform. At the same time, silent film was a form somewhat distinct from the sound films that came afterwards, and one whose development proceeded differently in different global contexts. This module will examine this critical period of film history by exploring the era through a variety of contexts. The first week will set out the historical period as well as key debates in film history, as well as introduce students to more recent developments in the field. As a team-taught course, the module will ordinarily be organised in three related clusters. These clusters may include, but will not be limited to: Representations of race and gender in the silent era; silent stars; Audiences and fan cultures; Historicizing Silent Cinema; Global Silent Cinema; Early documentary; Early sound practices; and Intermedial approaches to silent film.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening (up to 4 hours).			
	Scheduled learning: 66 hours		Guided independent study: 234 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr M Cowan			
Module teaching staff:	Dr M Cowan, Dr E Girelli, Dr T Rice			

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4204 Asian Cinemas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Mon (Screening 4.30 pm - 7.00 pm Tue)			
<p>Hollywood may be the global box office champion among the world's film industries for now, but it is far from being the industry that produces the most films. In 2012, India's various industries produced nearly four times as many films as Hollywood. Adding in production numbers from China, Japan and South Korea, that figure rises to six and a half times, and is not including many other industries in South Asia (Pakistan, Bangladesh, Sri Lanka), East Asia (Hong Kong, Taiwan, Philippines) and Southeast Asia (Indonesia, Thailand, Vietnam). Asian Cinemas will explore this most prolific, diverse and exciting area of world cinema by scrutinising it in various ways. Topics may include the cinemas of certain regions (Southeast Asia), languages (Chinese-language cinemas, including Singapore), pan-Asian production practices and stardom, the close relationship between cinema and popular music in Asian cinemas, Asian genres (martial arts, New Years films, gangster films), and the recent migration of art cinema's global centre of gravity from Europe to Asia (Hong Kong, Taiwanese and South Korean new waves) among others. 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. For 2017/18, the module will focus on Chinese-language Cinema.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening (up to 4 hours).			
	Scheduled learning: 66 hours		Guided independent study: 234 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr P Lovatt			
Module teaching staff:	Dr P Lovatt			

FM4208 City in Asian Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>In this module we will look at the representation of the city in Asian cinema. We will explore the links between urban and cinematic space across a range of thematic, historical and cultural concerns. Bringing together a range of cinematic practices and urban experiences, the module will engage the students to innovatively explore how the imagined city becomes the site of the rhythms and movements across Asia - from a space of possibility (conjugal relations and social mobility), to site of urban poverty, crime, religious violence, gender politics, and migration. Students will have the opportunity to watch a wide range of films from China, Hong Kong, Japan, South Korea, Taiwan and India - and learn to critically examine the ways in which cinema becomes an innovative and powerful archive of urban life as it engages with the events and experiences that shape the cultural, social, and political realities of the past, present and future in Asia.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact:			
	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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr A Jain			
Module teaching staff:	Dr A Jain			

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4303 Documentary Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	12.00 noon - 2.00 pm Tue (Screenings: 4.30 pm - 7.00 pm Mon)			
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			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr L Torchin			
Module teaching staff:	Dr L Torchin			

FM4306 Feminist Film Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue (Screenings: 7.00 pm - 9.30 pm Mon)			
This module offers an introduction to feminist film studies - history and theory whilst addressing questions of representation, aesthetics, ideology, and politics as related to gender and intersecting identities. We will explore what makes a particular film or media practice "feminist", and what role media production, distribution, and exhibition have in the process. How do media - images and practice - participate in and/or resist dominant ideas? And in what ways do feminist film studies challenge our received knowledge of film and media theory to date?				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus screening.			
	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%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr L Torchin			
Module teaching staff:	Dr L Torchin, Dr L Donaldson, Dr P Flaig			

Philosophical, Anthropological & Film Studies - Honours Level - 2017/8 - August 2017

FM4308 Film Sound				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>Film Sound challenges our critical focus on the film image and explores the expressive contribution of sound to film. Sound has the capacity to shape environment, mood and ultimately the ways in which we engage with film, thus making it a vital consideration in critical and aesthetic approaches. The module engages with central critical topics representation, aesthetics, affect and technology - and with the production of sound (through case studies of selected practitioners). The module utilises innovative ways of thinking about sound to help students gain a detailed understanding of the different elements of sound in film. The topic is explored through a range of case studies and draws on a diverse mix of sources, including production materials and interviews with industry personnel. The emphasis on the work of practitioners will help confront and nuance assumptions about watching and making film.</p>				
Programme module type:	Optional for Film Studies			
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 11 weeks) 3-hour film viewing (x 11 weeks)			
	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%			
Re-assessment pattern:	Take-home Examination = 100%			
Module coordinator:	Dr L Donaldson			
Module teaching staff:	Dr L Donaldson			

FM4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</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 Joint Honours in the Department of Film Studies			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 10 hours		Guided independent study: 290 hours	
Assessment pattern:	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

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FM4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.				
Programme module type:	Optional for Joint Honours in the Department of Film Studies			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 10 hours		Guided independent study: 290 hours	
Assessment pattern:	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

Music (MU) modules

MU3001 Concert Performance			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
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 and 30 minute 1:1 tutorials, and 10 hours of additional teaching spread throughout the semester.		
	Scheduled learning: 37 hours	Guided independent study: 263 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 75%, Coursework = 25%		
	As used by St Andrews: Practical Examination (Recital = 60%, Short Study= 5%, Performance classes = 10%) 75%, Coursework = 25%		
Re-assessment pattern:	5000-word Essay = 40%, Practical Examination (40-minute recital) = 60%		
Module coordinator:	Mr B Williams		
Module teaching staff:	Mr B Williams		

Philosophy (PY) modules

PY3100 Reading Philosophy 1: Texts in Language, Logic, Mind, Epistemology, Metaphysics and Science				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
<p>This module is designed to develop the philosophical skills students have acquired over their sub-Honours years, and acquaint them with key works in core areas of philosophy. The module involves close study of philosophical texts - historical and contemporary - that address a variety of topics within metaphysics, epistemology, the philosophies of logic and language, mind and science. Students will be required to carry out close study and discussion of these texts in staff-led weekly workshops, thereby furthering their skills of critical evaluation and analysis. Students will also take turns in presenting papers to the workshop, in pair-groups, which will help them to develop important communication skills and provide an opportunity for teamwork.</p>				
Programme module type:	Compulsory for BSc Joint Honours Philosophy At least one of PY3100 and PY3200 is a compulsory for all Philosophy degrees. Optional for MA Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012 and 40 credits in 2000-level PY modules			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 1 hour autonomous (student-run) learning group.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (including seminar presentation) = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words = 100%			
Module coordinator:	Dr P Greenough			
Module teaching staff:	Team taught			

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PY3200 Reading Philosophy 2: Texts in Ethics, Metaethics, Religion, Aesthetics and Political Philosophy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module is designed to develop the philosophical skills students have acquired over their sub-Honours years, and acquaint them with key works in core areas of philosophy. The module involves close study of philosophical texts - historical and contemporary - that address a variety of topics within ethics, metaethics, aesthetics, philosophy of religion and political philosophy. Students will be required to carry out close study and discussion of these texts in staff-led weekly workshops, thereby furthering their skills of critical evaluation and analysis. Students will also take turns in presenting papers to the workshop, in pair-groups, which will help them to develop important communication skills and provide an opportunity for teamwork.</p>				
Programme module type:	Either PY3100 or PY3200 is compulsory for all Philosophy degrees. Optional for all Philosophy degrees if PY3100 has been taken.			
Pre-requisite(s):	PY1006 or PY1012 and 40 credits in 2000-level PY modules			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 1 hour autonomous (student-run) learning group.			
	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 (including seminar presentation) = 100%			
Re-assessment pattern:	1 or more essays to a total of no more than 7,500 words = 100%			
Module coordinator:	Dr L Jones			
Module teaching staff:	Team taught			

PY3999 Special Topic in Philosophy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to Colgate University students.			
Planned timetable:	To be arranged.			
To be confirmed (module taught by member of Colgate Faculty).				
Programme module type:	Colgate University students.			
Pre-requisite(s):	2 courses from Colgate University			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Determined annually by Colgate Staff - continuous assessment			
Re-assessment pattern:	1 or more essays to a total of 2,000 words			
Module coordinator:	Colgate Staff representative TBC			
Module teaching staff:	Colgate Staff representative TBC			

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PY4601 Paradoxes				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
Tensions in our understanding of our concepts and the world can often give rise to paradoxes: situations where we are led from considerations we accept and may even find obvious to conclusions which we find very surprising or even ridiculous. Probably the best way to get a feel for how to deal with paradoxes and the issues which lie behind them is to examine a variety of paradoxes, both ancient and contemporary.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY4648	
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words (or suitable equivalent in the case of formal logic)			
Module coordinator:	TBC			
Module teaching staff:	TBC			

PY4604 Political Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
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			
Pre-requisite(s):	PY1006 or PY1012	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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (3 Essays)			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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PY4606 Contemporary Epistemology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>Knowledge is power, but ignorance is bliss. What we know - and what we don't know - is intimately connected to who we are, both collectively and individually. This module will explore the borderzones between epistemology, ethics, and political philosophy, focusing on three main issues. First, what is the epistemological significance of our race, gender, social class, or other identities? Second, what are the democratic significance of expert and citizen knowledge, and how is public discourse threatened by group polarization, ignorance or conspiracy theorising? Third, what tensions are there between our right to knowledge, and our right to privacy?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Prof K Hawley			
Module teaching staff:	Prof K Hawley			

PY4607 Continental European Philosophy from Descartes to Leibniz				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module will focus upon the way in which Continental European philosophers of the late seventeenth and early eighteenth century explored the problems inherent in the metaphysics of Descartes. Special attention will be given to questions such as the proper definition of substance; how to understand mind-body interaction, and causation in general; and what the relation between is between God and the universe. The systems of Descartes, Malebranche, and Spinoza will be examined as three very different ways of attempting to develop a coherent set of answers to these questions. In each case an attempt will be made to connect sometimes bizarre metaphysical theses with the ordinary world as experienced by human beings and as explored by natural scientists.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar and 1 other contact hour			
	Scheduled learning: 44 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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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PY4608 Political Philosophy in the Age of Revolutions				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module examines connections between political philosophy and political action. It focuses on political philosophy written in Britain in the seventeenth and eighteenth centuries, and on Hobbes, Locke, Hume, and Burke in particular. It considers this political philosophy in relation to the great political events of that age - the English Civil War, the Glorious Revolution of 1688, the American Revolution, and the French Revolution. In each case we will examine how historical events shape philosophical thinking and how philosophical thinking helps shape subsequent historical events. We will explore how political philosophy shaped the expressed ideology of the revolutionary movements and how this influence was codified in various constitutions and documents. The module will also consider how once revolutionary philosophies transform into defences of the status quo following success in securing political power.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture/seminar and 1 x 1-hour tutorial.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Prof J Harris			
Module teaching staff:	Prof J Harris			

PY4609 Philosophical Methodology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
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			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words (or suitable equivalent in the case of formal logic)			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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PY4610 Philosophy of Perception				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module concerns a variety of contemporary philosophical issues relating to perception. Attention will be paid to issues in philosophy of mind, epistemology and metaphysics as well as the relevance of empirical research in cognitive science. Topics covered are likely to include the arguments from illusion and hallucination, sense-data, direct and indirect realism, naïve realism, disjunctive theories of perception, the relation between perception and belief, the relation between the representational content of an experience and its phenomenal character, Molyneux's question, colour experience and the metaphysics of colours, the perception of change, and the question of whether perceptual experiences have non-conceptual contents.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy.			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr S Prosser			
Module teaching staff:	Dr S Prosser			

PY4611 Classical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be firmly confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012, PY2003 or PY2011			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr B Sattler			
Module teaching staff:	Dr B Sattler			

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PY4612 Advanced Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>The module presupposes facility in the elementary practice of logic provided by PY2001/PY2010. This module makes use of meta-theoretical techniques to make logic itself the subject of formal investigation. The main goals of the module will be to tackle the standard metatheoretical results: completeness, compactness, the Lowenheim-Skolem theorems, and Gödel's celebrated incompleteness theorems. Along the way, there will be preparatory discussion of elementary set theory, model theory, and recursion theory.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012, PY2001 or PY2010	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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words (or suitable equivalent in the case of formal logic)			
Module coordinator:	Dr A Cotnoir			
Module teaching staff:	Dr A Cotnoir			

PY4614 Philosophy of Mind				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module introduces topics of central interest in contemporary philosophy of mind. As well as surveying the main twentieth century approaches to the mind-body problem the module will cover various contemporary issues relating to consciousness and intentionality. The module also illustrates the way in which work in other disciplines such as experimental psychology, neuroscience and artificial intelligence can inform philosophical theorising about the mind. Topics may vary slightly from year to year but are likely to include a number of the following: dualism, identity theories, behaviourism, functionalism, folk psychology, the 'Language of Thought' hypothesis, eliminative materialism, connectionism, anomalous monism, mental causation, modularity, phenomenal consciousness.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY3002	
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr S Prosser			
Module teaching staff:	Dr S Prosser			

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PY4615 Metaphysics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
This module covers a series of inter-related issues in the metaphysics of modality and time. Topics that may 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. Authors to be discussed may include Katherine Hawley, Sally Haslanger, Saul Kripke, David Lewis, Theodore Sider, Robert Stalnaker, and Timothy Williamson.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr E Glick			
Module teaching staff:	Dr E Glick			

PY4617 The Philosophy of Saul Kripke				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
The purpose of this module is to explore the work and influence of contemporary philosopher Saul Kripke. Topics may include the semantics and meta-semantics of names, the semantics of attitude attributions, the metaphysics of modality, the use of possible worlds in semantics, epistemic possibility, fiction and non-existence, identity over time, rule-following and private language, and the mind-body problem.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006, PY3701	Anti-requisite(s):		
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr E Glick			
Module teaching staff:	Dr E Glick			

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PY4618 Animals, Minds and Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be firmly confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module will focus on philosophical issues related to the attribution of mental states to non-human animals. Do animals have minds? How can we know about them? In what ways are the mental abilities of animals similar to or different from our own? Topics to be discussed may include: are animals rational? To what extent can beliefs and other mental states be attributed to simple creatures such as insects? Can animals feel pain? Can simple creatures feel pain? How can we know whether they do? Do animals have emotions? Do animals have language and culture, or are these distinctively human capacities?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Scheduled Written Examination = 30%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr D Ball			
Module teaching staff:	Dr D Ball			

PY4619 Social Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module is an introduction to contemporary issues and arguments in social philosophy. It will provide some historical introduction and an account of certain key concepts, such as public versus private and individual versus common goods. It will then engage a number of areas of social life and action (such as, for instance, culture, art, economics, law, education, environment) examining contested values and policies. The broad orientation is towards 'practical philosophy'.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006, PY3702 (pre-or co-requisite)			
Co-requisite(s):	PY3702 (pre- or co-requisite)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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PY4620 Virtue and Vice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module investigates philosophical questions related to the evaluation of character. It asks what virtue and vice consist in, and how questions of the evaluation of character interact with questions about what is morally right or wrong. It examines the influential late twentieth-century critique of consequentialist and deontological theories by philosophers such as Elizabeth Anscombe, Bernard Williams and Alisdair McIntyre, and the modern virtue ethical approaches to morality which emerged in response to this critique. The module examines a variety of approaches to virtue and the evaluation of character, from the views of the Ancients, to Hume, Kant and Mill, and onto contemporary accounts. It also considers the implications of recent empirical work on character.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	TBC			
Module teaching staff:	TBC			

PY4621 British Philosophy 1650 - 1800: Hume				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>In this module we will study closely the entirety of Hume's first great work, A Treatise of Human Nature. We will consider in detail all of the following topics: Hume's skeptical account of the operations and capacities of human reason; his revolutionary account of the passions; and his enormously influential analysis of morals. The module will introduce students to the various contexts for Hume's philosophy, and will also take into account the history of Hume interpretation. Students will be equipped with skills necessary to reading historical texts, and with critical perspectives on the use of secondary literature.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012		Anti-requisite(s):	PY4631
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Take-Home Examination = 50%			
Module coordinator:	Prof J Harris			

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PY4622 Kant's Critical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
The purpose of this module is twofold. First, it examines the foundations of Kant's critical philosophy, often called 'transcendental idealism'. For this purpose, we shall read selections from Kant's Prolegomena (1783). Secondly, it will explore one of the three 'Critiques' Kant wrote as examples of this system: either (i) The Critique of Pure Reason (1781/87, describing the 'Copernican Turn' in Metaphysics and Epistemology), (ii) the Critique of Practical Reason (1788, a further exploration of the ethical theory of categorical commands as familiar from the Groundwork) or (iii) the Critique of Judgement (1790, Kant's theory of art and aesthetic judgement).				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012		Anti-requisite(s):	PY4811
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr M Walschots			
Module teaching staff:	Dr M Walschots			

PY4624 Philosophy of Art				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
What makes an object a work of art? Are artworks always physical objects, or can they be mental, or abstract, entities? Can good art be morally bad? How is conceptual art to be understood, and appreciated? This module examines some of the fundamental contemporary debates in philosophy of art, including issues concerning the nature and definition of art, problems regarding representation and expression (how exactly do works of art represent, or express anything?), the relation of art to ethics, and the value of art. In the course of addressing these issues, we will read the work of aestheticians from ancient times to the present day.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012		Anti-requisite(s):	PY4812
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (including take-home examination) = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr L Jones			
Module teaching staff:	Dr L Jones			

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PY4625 Philosophy and Public Affairs: Global Justice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr E Ashford			
Module teaching staff:	Dr E Ashford			

PY4626 Life and Death				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>How should we think about moral problems concerning life and death? Choices about whose life to save and whom to allow to die have to be made, in health services and elsewhere. Some actions which aim at good ends will endanger lives. How should we think about decisions such as these? This module is not a 'moral problems' module. Instead it deals with the following general questions concerning life and death: Is death bad? In virtue of what is life good? Is there a morally significant difference between killing and letting die, or between intending someone's death and merely foreseeing it? On what principles would one choose between lives, when the choice is forced? How should future lives be taken into account in present decisions?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012		Anti-requisite(s):	PY4826
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr T Pummer			
Module teaching staff:	Dr T Pummer, Dr E Ashford			

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PY4632 Contemporary Philosophy of Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
Using contemporary texts, this module will be an in-depth exploration of recent issues in philosophy of language. Topics that may be discussed include context and indexicality, indefinites and definites, quantifiers, modality and tense, or the relationships among singular propositions, singular thoughts, and singular terms.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr E Glick			
Module teaching staff:	Dr E Glick			

PY4634 Philosophy of Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
The module covers philosophical issues that arise in connection with the foundation of logic. These include questions like: What is the correct logic, and how would we know?; questions about how to understand what truth is, and paradoxes that arise from trying to provide a consistent account of truth; questions about how to handle vagueness in a logical system; and questions about the nature of possibility and necessity.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012; PY2001 or PY2010		Anti-requisite(s):	PY4804
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words (or suitable equivalent in the case of formal logic)			
Module coordinator:	Dr A Cotnoir			
Module teaching staff:	Dr A Cotnoir			

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PY4635 Contemporary Moral Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module aims to provide a critical appreciation of the main contemporary moral theories. It provides an in-depth examination of consequentialism - the view that one should always act so as to bring about the most good - as well as objections to the view and its main alternatives: e.g., Aristotelianism, feminist ethics, Kantianism.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY4808	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr T Pummer			
Module teaching staff:	Dr T Pummer, Dr B Sachs			

PY4638 Philosophy of Religion				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module aims to provide a philosophical understanding of the phenomenon of religion and its relation to other central human activities, studying such topics as religious and cultural diversity, religious experience, belief and justification, faith and reason, religious language, religion and metaphysics, religion and science.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY4819	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Prof S Broadie			
Module teaching staff:	Prof S Broadie, Prof T Mulgan, Dr A Douglas			

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PY4639 Philosophy of Creativity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
This module examines some of the fundamental issues in the philosophy of creativity. Topics typically covered may include the definition of 'creativity'; the relation of creativity to imagination; the nature of the creative process; the relation of creativity to knowledge and skill; computational theories of creativity; Darwinian theories of creativity; the relation of creativity to tradition; whether creativity is a kind of virtue and its relation to moral and intellectual virtues; and whether creativity differs fundamentally between the arts and the sciences.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Prof B Gaut			
Module teaching staff:	Prof B Gaut			

PY4640 Mediaeval Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module is a selective introduction to over a thousand years of Western philosophy before Descartes. We will focus on the 'golden age' of the thirteenth and fourteenth centuries, which are most famously home to Thomas Aquinas and William of Ockham respectively. Topics will vary from year to year, but may include: bivalence, foreknowledge and determinism; whether the past can be changed; whether the past could be infinite; whether lines are composed of indivisible points; what constitutes logical validity; what the relationship is between conditionals and arguments. The module will involve close reading of primary texts in a weekly workshop.				
Programme module type:	Optional for Single and Joint Honours Philosophy Optional for Mediaeval Studies			
Pre-requisite(s):	PY1006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour workshop.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr M Thakkar			
Module teaching staff:	Dr M Thakker			

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PY4641 Nineteenth-century Ethics and Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
This module critically studies the ethics and philosophy of the first part of the nineteenth century, with special reference to selected works of Hegel and John Stuart Mill.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:				
Module coordinator:				
Module teaching staff:				

PY4642 Trust, Knowledge and Society				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
Traditional epistemology often focuses on the individual knower in isolation. In contrast, this module explores the ways in which our relations to other people affect what we can know. We begin by focusing on trust and testimony. Under what conditions can we obtain knowledge from one another? Do we need prior evidence of other people's trustworthiness, or can we take what they say at face value? Do we have a moral obligation to take other people seriously as informants? Can groups of people collectively know something even if none of the individual members knows it? Moving on, we will discuss the following questions: do we require less evidence to trust those with whom we have special relationships of love and friendship? Can two people who confront the same evidence rationally form different beliefs? To what extent can there be non-evidential reasons to believe, as opposed to non-evidential causal effects on belief?				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	TBC			
Module teaching staff:	TBC			

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PY4643 Philosophy of Law				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
The purpose of this module is to explore such topics in and concerning law as the nature of law; legal reasoning; the justification of punishment; the proper scope of the criminal law (with particular attention to paternalism and legal moralism); the principles of criminal liability and mens rea issues; justifications and excuses; and specific defences in the criminal law such as self-defence and the heat of passion defence.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Prof J Timmermann			
Module teaching staff:	Prof J Timmermann			

PY4644 Rousseau on Human Nature, Society, and Freedom				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
What kind of political freedom is possible in the modern world? In particular, is republican political freedom possible, the freedom of an autonomous sovereign people? Jean-Jacques Rousseau (1712-1778) argues that it is, despite the many ways in which politics has changed since the republics of ancient Athens and ancient Rome. The people do not have to hand over their sovereignty to their governors. Politics can be structured so that society's most fundamental laws are made by the people themselves. We will examine this revolutionary idea by way of a close reading of Rousseau's <i>The Social Contract</i> , giving special attention to the crucial distinction between 'sovereignty' and 'government'. We will bring out Rousseau's radicalism through a contrast with the theory of political freedom proposed by Montesquieu in <i>The Spirit of the Laws</i> . And we will explore the distinctively modern character of Rousseau's republicanism by grounding it in his historicized analysis of human nature.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Prof J Harris			
Module teaching staff:	Prof J Harris			

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PY4645 Philosophy and Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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 singular art form.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	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: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr L Jones			
Module teaching staff:	Dr L Jones			

PY4646 Reasons for Action and Belief				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>In considering what we ought to do and believe we consider what reasons we have. For example, in deciding whether I should become a vegetarian or whether I should believe that climate change is occurring, I consider reasons for and against these things. The module will consider the nature of reasons and their relationship to claims about what I ought to do and believe. Since reasons are central to ethics; practical rationality, and epistemology, understanding reasons is crucial for understanding a huge swathe of philosophy. We explore these issues from both an epistemological and a practical perspective.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr J Snedegar			
Module teaching staff:	Dr J Snedegar, Prof J Brown			

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PY4647 Humans, Animals, and Nature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module is an examination of the place of human beings in nature. Possible topics to be discussed include: (1) Whether humans might have moral dominion over other beings in virtue of their greater psychologically sophistication. (2) What should be said about those humans who are psychologically stunted for one reason or another, and especially whether their species membership on its own puts moral demands on the rest of us. (3) Whether humans might be either obligated or at least permitted to intervene in nature so as to make it a happier and more peaceful place. (4) Whether the state has obligations to animals. Over the course of the semester we will see what the various moral perspectives, such as for instance consequentialism, Kantianism, contractarianism, and Aristotelianism, have to say about these questions.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words			
Module coordinator:	Dr B Sachs			
Module teaching staff:	Dr B Sachs			

PY4648 Conceptual Engineering and its Role in Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>The module provides an introduction to the ways in which we can criticise and improve our concepts - what is sometimes called 'conceptual engineering'. The concepts we have can be problematic for a number of reasons: they can be politically or ethically objectionable, inconsistent, unacceptably indeterminate or vague, or have other undesirable features. One task of philosophy is to discover such conceptual deficiencies and provide strategies for improving our conceptual repertoire. We may ask, for instance: should a theory of truth describe our concept of truth, or replace it with a better one? Is one goal of political philosophy to improve the concepts we use for thinking about social reality? If the answer to such questions is yes, then how do we go about doing it?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012		Anti-requisite(s):	PY4601
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%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words (or suitable equivalent in the case of formal logic)			
Module coordinator:	Dr P Greenough			
Module teaching staff:	Dr P Greenough			

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PY4649 Core Works in Continental Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module offers an in-depth study of one or more of the classic texts within so-called 'continental' philosophy. Typical examples of texts may be taught are: Heidegger's Being and Time, Hegel's Phenomenology of Spirit, Nietzsche's Beyond Good and Evil and On the Genealogy of Morals, or Sartre's Being and Nothingness. Depending on the work studied, typical topics will include: the role of history for philosophy, the role of the self and self-consciousness, the foundations of ontology and its relation to our human existence, and the value of our value systems.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework (including seminar presentation) = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words = 100%			
Module coordinator:	Dr W Pedriali			
Module teaching staff:	Dr W Pedriali			

PY4650 Philosophy, Feminism and Gender				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>This module will introduce students to important metaphysical, epistemological, linguistic, and ethical issues concerning gender, via the arguments and methodology of analytic feminism. Questions addressed may include: what is gender? What might it mean to claim that reason, rationality or knowledge is gendered? Or that language is gendered? How is gender relevant to ethical concerns? How might an understanding of gender impact our thinking about concepts such as equality, justice, and difference? In considering such issues, we will also pay attention to the ways in which gender interacts with other factors, such as race, ethnicity, and social class.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture, 1 hour seminar, 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%			
Re-assessment pattern:	Reassessment is by one or more essays, totalling no more than 7000 words, questions to be set by module coordinator = 100%.			
Module coordinator:	Dr A Duncan-Kerr			
Module teaching staff:	Dr A Duncan-Kerr			

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PY4651 Effective Altruism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>In this module we will explore a constellation of philosophical issues and questions surrounding the effective altruism movement. One set of questions concerns the core philosophical commitments of effective altruism, and their overall tenability. For example: is effective altruism compatible with agent-centred partiality for particular charitable causes? Should non-consequentialists understand benevolence in effective altruist terms? Another set of questions deals with issues arising more from 'within' the effective altruist standpoint: What is the most important cause? Fighting extreme poverty, reducing existential risks, or what? How should we decide where to give if there is no clearly best cause? And to what extent is philosophical progress a priority, from an effective altruist perspective? Within the latter set of questions, special emphasis may be placed on different areas in different years.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture, 1 hour seminar, 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%			
Re-assessment pattern:	Reassessment is by one or more essays, totalling no more than 7000 words, questions to be set by module coordinator = 100%.			
Module coordinator:	Dr T Pummer			
Module teaching staff:	Dr T Pummer, Prof T Mulgan			

PY4652 The Philosophy of Human Rights				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>We will explore cutting-edge research on the nature, content, and justification of human rights. We begin by examining the origins of human rights and the implications this has for the philosophical understanding thereof (focusing in particular on anti-slavery courts and on the 1948 Universal Declaration of Human Rights). We explore current debates by political philosophers and international legal theorists over how we should properly conceive of human rights, the relationship between their status as moral and legal norms, and the nature of human dignity, to which the major human rights declarations appeal. The module also examines the significance of the fact that human rights are rights, as well as considering critical perspectives on the human rights movement.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture, 1 hour seminar, 1 office hour			
	Scheduled learning: 24 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%			
Re-assessment pattern:	Reassessment is by one or more essays, totalling no more than 7000 words, questions to be set by module coordinator = 100%.			
Module coordinator:	Dr E Ashford			
Module teaching staff:	Dr E Ashford, Dr A Etinson			

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PY4653 Toleration in the Early Modern Period				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module offers an in depth study of the theory and practice of religious toleration in the Early Modern Period (sixteenth and seventeenth centuries). The module covers classic texts, such as Locke's Letter Concerning Toleration, but also spends a good deal of time exploring the thought of lesser-known figures: Pierre Bayle, Sebastian Costellio, Jean Bodin, etc. The main purpose of the course is to try to understand the variety of arguments offered both for and against religious tolerance in the Early Modern Period, the historical background or context informing these arguments, and the relationship between these arguments and the actual practice of religious tolerance or intolerance.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of class (lecture and seminar). The staff member will also hold a weekly office hour for consultation for students on this module.			
	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%			
Re-assessment pattern:	1 or more essays, totalling no more than 7,000 words			
Module coordinator:	Dr A Etinson			
Module teaching staff:	Dr A Etinson, Dr A Douglas			

PY4654 Responsibility, Praise, and Blame				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>Ordinarily, we blame people for doing wrong and praise them for doing the right thing. But what is it to blame someone or praise them? And under what conditions is someone worthy of blame or praise for their actions or attitudes? This module aims to look at the nature of blame and what it is to be blameworthy, as well as how one ought to act under conditions of ignorance or uncertainty. It seems that ignorance sometimes excuses wrong-doing. For instance, one might break a promise to pick up a friend from the airport and yet be blameless, due to ignorance (say because one's friend misinformed one which airport she's arriving at). Under what conditions does ignorance excuse and what type of ignorance excuses (factual vs. normative)? Further, how should one act when one is not sure what is the correct morality?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of classes (lecture and seminar) and one office consultation hour.			
	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: Coursework = 100%			
Re-assessment pattern:	Re-assessment is by one or more essays, totalling no more than 7000 words, questions to be set by module coordinator.			
Module coordinator:	Prof J Brown			
Module teaching staff:	Prof J Brown			

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PY4655 Advanced Metaethics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>We take ourselves to know lots of moral truths: slavery is unjust, murder is wrong, we shouldn't ignore those in need. Beliefs like this are among those that we're most certain of. Most of us also take moral questions that we don't yet have a view about to be very important, as well. But throughout the history of philosophy, philosophers have worried about the nature and status of morality. What, exactly, are we saying when we say that murder is wrong? What is it for something to be good or bad? Even if we take ourselves to know that murder is wrong, how do we know? What did we have to do to learn it? Some philosophers have been moved by the lack of satisfactory answers to questions like these to question the whole enterprise of morality. Even if we can agree that there are some things that are morally wrong for us to do, and even if we can know what those are, we may ask: So what? Why should we do what morality demands of us? This module addresses these kinds of metaethical questions.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY3702	
Learning and teaching methods and delivery:	Weekly contact: Students will attend 3 hours of class (lecture and seminar) per week. The staff member will hold a weekly office hour for consultation for students on this module.			
	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%			
Re-assessment pattern:	2 essays of 3,500 words = 100%			
Module coordinator:	Dr J Snedegar			
Module teaching staff:	Dr J Snedegar			

PY4656 The Philosophy of Love and Sex				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module will introduce students to important historical and contemporary literature on the philosophy of love and sex. Love, friendship, and sex are widely accepted as essential to a flourishing human life, yet few of us actually think critically through issues concerning love and sex despite the fact that they both play such a fundamental role in our lives. This module will strengthen students' critical thinking skills while exploring the nature of love and sex through the consideration of questions like: What is love? Does parental love differ from sibling love, friendship love, erotic love, or romantic love? Why might love be essential to a flourishing human life? To answer these questions properly requires thinking about definitions, historical discussions, and implications of love. What is sex? When we want to have sex, what is it that we actually want? Why do we want sex? What are the moral, social, and physical issues concerning sex?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 OR PY1012			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of class (lecture and seminar). The staff member will also hold a weekly office hour for consultation for students on this module.			
	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%			
Re-assessment pattern:	Re-assessment is by one or more essays, totalling no more than 7000 words, questions to be set by module coordinator.			
Module coordinator:	Dr A Kerr			
Module teaching staff:	Dr A Kerr			

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PY4698 Dissertation (Whole Year)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
This module aims to develop the philosophical skills of literature review, accurate exposition, clear analysis, and critical thinking for oneself, by writing a dissertation on a selected topic, with the supervision of a tutor. A student must secure the agreement of a member of staff to supervise the work (ideally during the summer before the academic session in which the dissertation is taken), and submit the appropriate application form for the approval of the Honours Adviser before the end of advising Semester One.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY4699, PY4701	
Learning and teaching methods and delivery:	Weekly contact: Monthly meetings over two semesters.			
	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%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Philosophy Honours Adviser			

PY4699 Dissertation in Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
This module aims to develop the philosophical skills of literature review, accurate exposition, clear analysis, and critical thinking for oneself, by writing a dissertation on a selected topic, with the supervision of a tutor. A student must secure the agreement of a member of staff to supervise the work (ideally during the summer before the academic session in which the dissertation is taken), and submit the appropriate application form for the approval of the Honours Adviser before the end of advising Semester One.				
Programme module type:	Optional for Single and Joint Honours Philosophy			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY3803, PY4698, PY4701, PY4802	
Learning and teaching methods and delivery:	Weekly contact: 5 supervision meetings over one semester, plus 1 x 2-hour training session.			
	Scheduled learning: 7 hours		Guided independent study: 293 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Philosophy Honours Adviser			

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PY4701 Philosophy and Pedagogy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students taking ID4002 in same semester.			
Planned timetable:	Not applicable.			
This module is a complement to ID4002 - Communication and Teaching in Arts & Humanities (a placement module in which students gain substantial experience of a working educational environment, and of communicating philosophical ideas or themes to school pupils). In this module, students will have the opportunity to carry out further study into the place of philosophy in education and/or the role of philosophy in teaching. This is a guided self-study module, which will be supervised by a member of philosophy staff. It is available only to participants in ID4002.				
Programme module type:	Optional for Single and Joint Honours Philosophy, but only for those taking ID4002			
Pre-requisite(s):	PY1006	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%			
Re-assessment pattern:	1 or more essays to a total of 5,000 words			
Module coordinator:	Dr L Jones			
Module teaching staff:	Dr L Jones			

PY4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The dissertation must consist of approximately 6,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors 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/)				
Programme module type:	Optional for Joint Honours in the Department of Philosophy			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

Social Anthropology (SA) modules

SA3030 Critical Thinkers and Formative Texts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	2.00 pm and 3.00 pm Tue			
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			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
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 Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Prof R Dilley			
Module teaching staff:	Prof R Dilley			

SA3032 Regional Ethnography 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	1.00 pm Mon			
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: 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 or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word essay = 100%			
Module coordinator:	Dr S Pipyrou			
Module teaching staff:	Dr S Pipyrou			

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SA3049 Perception, Imagination and Communication				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
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			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 22 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: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr H Wardle			
Module teaching staff:	Dr H Wardle			

SA3053 Individuality, Community and Morality				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
This module examines the place of the individual, community and morality, in anthropological theory, past and present, and how this is ethnographically applied. In exploring the experiences of contemporary life individuality is found to be the key to understanding the meanings in whose terms that life is led. Individual consciousness will be seen to be significantly self-created, and individual agency and identity as importantly independent of particular socio-cultural milieux.				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar.			
	Scheduled learning: 22 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: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr A Joyce			
Module teaching staff:	Dr A Joyce			

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SA3060 Contemporary Issues in Social Anthropology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
	these issues contribute to the discipline. The purpose of the module is to provide a forum in which students can learn about theoretical and empirical themes that are at the leading edge of current anthropological research. The content and focus will therefore shift from year to year in line with new intellectual developments in the discipline.			
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture, 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 or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr A Reed			
Module teaching staff:	Team taught			

SA3061 Reading Ethnography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
	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.			
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
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%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr P Gay y Blasco			
Module teaching staff:	Dr P Gay y Blasco			

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SA3062 Anthropology, Indigenous Peoples and Resource Extraction				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	To be arranged.			
<p>This module focuses on the social and cultural relations produced by resource management projects, and explores the global and local frames through a series of world-wide case studies of mining, oil, gas and forestry projects. Resource projects have long been important sites of cultural contact, environmental impact and anthropological interest: whether first contact with prospectors, disputes with multinational companies, sustainable development initiatives or civil-society monitoring, resource exploration and extraction has long played an important part in the interface with non-western and indigenous peoples and the forces of globalisation. The module also examines the potential for anthropological skills and knowledge to contribute to an industry that has increasingly to account for its social and environmental impacts to a global constituency.</p>				
Programme module type:	Optional for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 2 seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 33%, Practical Examinations = 0%, Coursework = 67%			
	As used by St Andrews: Take-Home Examination = 33%, Coursework = 67%			
Module coordinator:	Dr T Crook			
Module teaching staff:	Dr T Crook			

SA3065 Anthropology of Economic Life				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8			
Planned timetable:	11.00 am (days To be confirmed)			
<p>This module provides an introduction to the main anthropological approaches to economic life. It explores both classical and current analytical frameworks for understanding how people live and organise their lives in different ways. Students should be aware that this module is not intended to be an economics course for anthropologists and others. Instead, grounded in the comparative and ethnographically-based discipline of anthropology, it brings together a wide range of regional, cultural and historical material.</p>				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 11 weeks), 1 x 2-hour seminar (x 11 weeks) and 1 other contact hour (x 11 weeks) 2 hours of film viewing.			
	Scheduled learning: 46 hours		Guided independent study: 240 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%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr M High			

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SA3506 Methods in Social Anthropology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Not available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module provides an introduction to the various methods of enquiry and interpretation used in social anthropological research. It aims to give the student an account, in historical and contemporary perspectives, of the development of anthropological methodologies and research techniques. It also aims to equip them with a range of basic skills and procedures which they can apply at a later date to their own research-based projects. The module will provide knowledge of a wide range of research methods used by anthropologists, and encourage a critical awareness of the theoretical assumptions and potential problems associated with the use of such methods.</p>				
Programme module type:	Compulsory for students studying Single Honours, Joint Honours and Major degrees in Social Anthropology who intend to go on to take SA4099. Optional for Social Anthropology without SA4099.			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
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%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr A Joyce			
Module teaching staff:	Dr A Joyce			

SA4058 Visual Anthropology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	1.00 pm Mon Lecture, 2.00 pm - 4.00 pm Thu (film), Fri 1.00 pm - 2.00 pm OR 2.00 pm - 3.00 pm (tutorial).			
<p>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.</p>				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
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: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr M Frankland			
Module teaching staff:	Dr M Frankland			

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SA4060 Anthropology of Religion and Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Planned timetable:	To be arranged.			
The intention of this module is to analyse the impact of religion on politics in societies around the world in order to understand the global context of religious movements from an anthropological perspective. This is achieved by examining ethnographic literature on Christianity in the Americas, Hinduism in India, and Islam as both local and global religions. In particular, the course focuses on the notions of fundamentalism and religious nationalism and assesses these terms in relation to both conservative religious movements and religious resistance movements that emerge in response to social oppression.				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar, 1 x 1-hour film viewing			
	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%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr A Reed			
Module teaching staff:	Dr A Reed			
SA4098 Library-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students taking Single Honours, Joint Honours and Major Degrees			
Planned timetable:	To be arranged.			
The module consists of a supervised exercise in social anthropological enquiry. This will include a library-based independently researched dissertation, up to 10,000-words. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
Anti-requisite(s):	SA4099			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour 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%			
Re-assessment pattern:	7,500-word Essay = 100%			
Module coordinator:	Dr C Lind			

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SA4099 Primary Research-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
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: 1 x 2-hour 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%			
Re-assessment pattern:	10,000-word Essay = 100%			
Module coordinator:	TBC			
Module teaching staff:	TBC			

SA4797 Joint Project (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue . No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.</p>				
Programme module type:	Optional for Joint or 'with' Honours in the Department of Social Anthropology			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	Any other dissertation / project module			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: hours		Guided independent study: hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

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SA4850 Andes				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm - 4.00 pm Tue			
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.				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
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 Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr S Hyland			
Module teaching staff:	Dr S Hyland			

SA4863 Youth in Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Planned timetable:	2.00 pm Thu			
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.				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both			
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 Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module coordinator:	Dr M Fumanti			
Module teaching staff:	Dr M Fumanti			

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SA4866 Anthropology and Eurasia			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Planned timetable:	10.00 am - 12.00 noon Tue (film), 11.00 am - 1.00 pm Thu Lecture		
<p>This module forms an important introduction to the anthropology and history of the Eurasian region. It draws on Russian and Soviet ethnographies alongside more recent European and American anthropological studies, addressing the Soviet period and life post-independence. Peoples covered in this module are from the five former Soviet Central Asian states, along with groups from Mongolia, South Siberia, and Xinjiang. The module provides a broad overview of regional ethnography alongside relevant anthropological themes. These include pastoral nomadism and oasis life; socialism and post-socialism; human-environment relations and ecological issues; Islam and shamanism; food and feasting; oral epics and popular culture; and domestic practices.</p>			
Programme module type:	Optional for Social Anthropology		
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, 1 hour of 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: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%		
Re-assessment pattern:	6,000-word Essay = 100%		
Module coordinator:	Dr S Bunn		
Module teaching staff:	Dr S Bunn		

School of Physics & Astronomy

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Astronomy (AS) modules

AS3013 Computational Astrophysics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 pm - 5.30 pm Mon and Thu (TBC)			
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):	PH2011, PH2012, MT2001 or (MT2501 and MT2503)			
Learning and teaching methods and delivery:	Weekly contact: 2 x 3.5-hour supervised or taught sessions (x 10 weeks). Mostly hands-on guided work on computers, but with occasional presentation.			
	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 (practical work, the submission of computer code and computational solutions to given problems) = 100%			
Re-assessment pattern:	No Re-assessment available - laboratory based			
Module coordinator:	Dr P Voitke (TBC)			
Module teaching staff:	Dr P Voitke, Dr C Helling, Prof K Horne (TBC)			

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AS4010 Extragalactic Astronomy			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	12.00 noon Mon, Tue, Thu (TBC)		
<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 Universe, and galaxy evolution in regions of high and low density is investigated. The module includes a look at modern instrumentation used in extragalactic astrophysics. 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 BSc and MPhys Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS2001 or AS2101, PH2011, PH2012, MT2001 or (MT2501 and MT2503)		
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 = 90%, Practical Examinations = 0%, Coursework = 10%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (10% Class Test, 10% Essay) = 20%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Dr V Wild (TBC)		
Module teaching staff:	Dr V Wild, Dr A M Weijmans (TBC)		

AS4011 The Physics of Nebulae and Stars 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	10.00 am Tue, Wed, Thu (TBC)			
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 MPhys At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics BSc Optional for Astrophysics, Physics BSc Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics MPhys			
Pre-requisite(s):	AS2001 or AS2101, PH2011, PH2012, MT2001 or (MT2501 and MT2503), PH3081 or PH3082 or MT2003 or (MT2506 and MT2507)			
Anti-requisite(s):	AS4023, AS3015	Required for:	AS4012	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr K Wood (TBC)			
Module teaching staff:	Dr K Wood (TBC)			

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AS4012 The Physics of Nebulae and Stars 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue (TBC)		
<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 MPhys At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics BSc Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS4011	Anti-requisite(s):	AS4023, AS3015
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Prof A C Cameron (TBC)		
Module teaching staff:	Prof A C Cameron and Dr P Voitke (TBC)		

AS4015 Gravitational and Accretion Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.05 am - 12.00 noon Mon, Wed, Fri			
<p>This theoretical module is open to both physics and astrophysics students. It aims to explore the basics of gravitational dynamics and its application to systems ranging from planetary and stellar systems to clusters of galaxies. The dynamics responsible for the growth of super-massive black holes in galaxies and the accretion discs in stellar systems are also covered. Starting from two-body motion and orbits under a central-force law, the module describes the calculation of extended potentials and their associated orbits. The use of the virial theorem and the statistical treatment of large numbers of selfgravitating bodies is then developed with application to stellar systems. Applications of these methods are made to several different astrophysical objects ranging from collisions in globular clusters to the presence of dark matter in the universe.</p>				
Programme module type:	<p>At least 2 of AS4015, AS4025, PH4031 are compulsory for Astrophysics MPhys At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics BSc Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics</p>			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or MT2003 or [MT2506 and MT2507])			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Prof I Bonnell (TBC)			
Module teaching staff:	Prof I Bonnell (TBC)			

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AS4025 Observational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	2.00 pm - 5.30 pm Mon and Thu, plus some nights. (TBC)		
<p>This is an observational and laboratory-based module that introduces students to the hands-on practical aspects of planning observing programmes, conducting the observations and reducing and analysing the data. Students use the James Gregory Telescope for CCD imaging and structural analysis of galaxies, and for CCD photometry of transiting exoplanet candidates. Further sources of data may be made available from international observatories. Observations are also secured at the University Observatory using a student-built radio telescope to observe low-frequency radio emission from the Galactic plane.</p> <p>Students gain experience in observation, data analysis, the UNIX operating system, standard astronomical software packages and modelling, and report writing.</p>			
Programme module type:	At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsory for Astrophysics BSc Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	AS2001 or AS2101, PH2011, PH2012, (MT2001 or [MT2501 and MT2503])		
Learning and teaching methods and delivery:	Weekly contact: 2 x 3.5-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%		
Re-assessment pattern:	No Re-assessment available - laboratory based		
Module coordinator:	Dr C Cyganowski (TBC)		
Module teaching staff:	Dr A Scholz, Dr C Cyganowski (TBC)		

AS4103 Astrophysics Project (BSc)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to BSc 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 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 pre-project report on a topic which is usually related to the theme of the project. There is no specific syllabus for this module. Students taking the BSc degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally 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. A pre-project report precedes the experimental/computational/theoretical work of the project, and is expected to be directly relevant to the subsequent experimental studies.</p>			
Programme module type:	Compulsory for Astrophysics BSc		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), AS3013, PH3081, PH3012 Entry to final year of BSc Astrophysics programme.		
Anti-requisite(s):	AS5101, PH4111, PH5101, PH5103, PH4796		
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: 18 hours	Guided independent study: 282 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>		
Re-assessment pattern:	No Re-assessment available - Final year project		
Module coordinator:	Dr C Helling (TBC)		
Module teaching staff:	Astronomy staff		

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AS5001 Advanced Data Analysis			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	This module is intended for students in the final year of an MPhys or MSci programme involving the School		
Planned timetable:	9.00 am Tue, Thu, 10.00 am Mon, 12.00 noon Thu and 3.00 pm - 5.00 pm Tue (Lab) (TBC)		
<p>This module develops an understanding of basic concepts and offers practical experience with the techniques of quantitative data analysis. Beginning with fundamental concepts of probability theory and random variables, practical techniques are developed for using quantitative observational data to answer questions and test hypotheses about models of the physical world. The methods are illustrated by applications to the analysis of time series, imaging, spectroscopy, and tomography datasets. Students develop their computer programming skills, acquire a data analysis toolkit, and gain practical experience by analyzing real datasets.</p>			
Programme module type:	At least two of AS5001, AS5002, and AS5003 are compulsory for MPhys Astrophysics Optional for Physics MPhys, Theoretical Physics, Theoretical Physics and Mathematics		
Pre-requisite(s):	Familiarity with scientific programming language essential, for example through AS3013 or PH3080. Entry to an MPhys programme in the School.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials and some supervised computer lab sessions		
	Scheduled learning: 42 hours	Guided independent study: 108 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available - laboratory based		
Module coordinator:	Prof K Horne (TBC)		
Module teaching staff:	Prof K Horne (TBC)		

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AS5002 Magnetofluids and Space Plasmas				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	This module is intended for students in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	11.00 am Mon, Tue, Thu (TBC)			
<p>This module is aimed at both physics and astrophysics students with interests in the physics of plasmas. The interaction of a magnetic field with an ionized gas (or plasma) is fundamental to many problems in astrophysics, solar- terrestrial physics and efforts to harness fusion power using tokamaks. The syllabus comprises: Solar-like magnetic activity on other stars. The basic equations of magneto-hydrodynamics. Stellar coronae: X-ray properties and energetics of coronal loops. Energetics of magnetic field configurations. MHD waves and propagation of information. Solar and stellar dynamos: mean field models. Star formation: properties of magnetic cloud cores, magnetic support. Physics of accretion discs: transport of mass and angular momentum. Accretion on to compact objects and protostars. Rotation and magnetic fields in protostellar discs. Rotation distributions of young solar-type stars. Magnetic braking via a hot, magnetically channelled stellar wind.</p>				
Programme module type:	At least two of AS5001, AS5002, and AS5003 must be taken for MPhys Astrophysics Optional for Physics MPhys, Theoretical Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	(PH3007 or MT4510 or MT4553) AND (AS3013 or PH4030 or PH3080 or AS3013 or MT3802 or MT4112)			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Prof M M Jardine (TBC)			
Module teaching staff:	Prof M M Jardine (TBC)			

AS5003 Contemporary Astrophysics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to MPhys Astronomy students or a taught postgraduate programme in the School.			
Planned timetable:	12.00 noon Wed, Fri and 3.00 pm Mon (TBC)			
<p>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.</p>				
Programme module type:	At least two of AS5001, AS5002, and AS5003 are compulsory for MPhys Astrophysics			
Pre-requisite(s):	AS4010, AS4012, PH3061, PH3081.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr H Zhao (TBC)			
Module teaching staff:	Dr A Sicilia-Aguilar, Dr P Rimmer, Dr A Mortier, Dr H Zhao (TBC)			

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AS5101 Astrophysics Project (MPhys)			
SCOTCAT Credits:	60	SCQF Level 11	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to final year MPhys 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 pre-project report. There is no specific syllabus for this module. Students taking the MPhys 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. A pre-project report precedes the experimental/computational/theoretical work of the project, and is expected to be directly relevant to the subsequent experimental studies.</p>			
Programme module type:	Compulsory for Astrophysics MPhys		
Pre-requisite(s):	PH2011, PH2012, (PH3081 or PH3082 or (MT2003 or (MT2506 and MT2507)), AS3013, AS4012, Entry to final year MPhys Astronomy	Anti-requisite(s):	AS4103, PH4111, PH5101, PH5103, PH4796
Co-requisite(s):		Required for:	
Learning and teaching methods and delivery:	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.		
	Scheduled learning: 21 hours	Guided independent study: 579 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available - Final year project		
Module coordinator:	Dr C Helling (TBC)		
Module teaching staff:	Astronomy staff		

Physics (PH) modules

PH3007 Electromagnetism				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.05 am Mon even numbered weeks, 9.05 Tue, Thu, 15.05 Fri odd-numbered weeks (TBC)			
The properties of electromagnetic fields will be explored using a variety of mathematical tools (in particular, vector and differential calculus). Topics will include: charge and current distributions, electro- and magnetostatics, materials, electrodynamics, conservation principles, electromagnetic waves and radiation. This module builds on knowledge and skills acquired in prior coursework by developing techniques for solving more advanced problems in electromagnetism.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Physics and Chemistry, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	(PH3081 or PH3082 or MT2003 or MT2506) and PH2012 and [MT2001 or (MT2501 and MT2503)].			
Required for:	PH4025, PH4027, PH4032, PH5005			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and fortnightly tutorials.			
	Scheduled learning: 36 hours		Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework (class tests 30%) = 40%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr C Baily (TBC)			
Module teaching staff:	Dr C Baily (TBC)			

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PH3012 Thermal and Statistical Physics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 2.00 pm even Tue (TBC)		
<p>The aim of this module is to cover at honours level the principles and most important applications of thermodynamics and statistical mechanics.</p> <p>The syllabus includes: equilibrium; the equation of state; the classical perfect gas; discussion of experimental results that lead to the three laws of thermodynamics; idealised reversible engines; the Clausius inequality; the classical concept of entropy and its connection to equilibrium; thermodynamic potentials; Maxwell's relations; open systems and the chemical potential; phase transitions and the Clausius-Clapeyron equation for first order transitions; higher order phase transitions; the connection between statistical physics and thermodynamics; the Boltzmann form for the entropy; microstates and macrostates; the statistics of distinguishable particles; the Boltzmann distribution; the partition function; statistical definition of the entropy and Helmholtz free energy; statistical mechanics of two-level systems; energy levels and degeneracy; quantum statistics: Bose-Einstein and Fermi-Dirac distributions; density of states; black-body radiation; Bose-Einstein condensation; Fermi energy; quantum gases and the classical limit; Maxwell-Boltzmann distribution; equipartition of energy; negative temperatures.</p>			
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Chemistry and Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2011, PH2012, [MT2001 or (MT2501 and MT2503)], (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])		
Required for:	PH4025, PH5014		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 36 hours	Guided independent study: 114 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%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Prof S Lee (TBC)		
Module teaching staff:	Prof S Lee, Dr I Leonhardt (TBC)		

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PH3014 Transferable Skills for Physicists				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Not automatically available to General Degree students.			
Planned timetable:	10.00 am Wed, occasional 10.00 am Fri (TBC)			
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):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), Entry to the School's Honours programme.			
Anti-requisite(s):	PH4040			
Learning and teaching methods and delivery:	Weekly contact: Through the year there are 8 lectures, 9 tutorials, 1 workshop, and about 14 hours of presenting and/or critically evaluating talks.			
	Scheduled learning: 37 hours		Guided independent study: 113 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 35%, Coursework = 65%			
	As used by St Andrews: Coursework on basis of exercises and 2 oral presentations = 100%			
Re-assessment pattern:	No Re-assessment available - Assignment based			
Module coordinator:	Dr B D Sinclair (TBC)			
Module teaching staff:	Dr B D Sinclair and others (TBC)			

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PH3061 Quantum Mechanics 1				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Tue, Thu (TBC)			
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 the 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, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503)			
Co-requisite(s):	PH3081 or PH3082 unless already have [MT2003 or (MT2506 and MT2507)]			
Required for:	PH3062, PH4022, PH4025, PH4028, PH4037, PH4040, PH5002, PH5003, PH5004, PH5005, PH5012, PH5014, PH5015,			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and fortnightly tutorials.			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 94%, Practical Examinations = 0%, Coursework = 6%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (incl Class Test 14%)= 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr A Kohnle (TBC)			
Module teaching staff:	Dr A Kohnle (TBC)			

PH3062 Quantum Mechanics 2				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Wed, Fri (TBC)			
This module explores more of the key concepts of quantum mechanics, assuming a knowledge of the material in PH3061. The syllabus includes time-independent and time-dependent perturbation theory, including the treatment of degenerate states. The course includes a matrix description of spin, the Bloch sphere representation of spin, systems of interacting spins, and the quantum mechanics of a system of identical particles, which leads to the distinction between fermions and bosons.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Chemistry and Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3061, (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])			
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 fortnightly tutorials.			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 95%, Practical Examinations = 0%, Coursework = 5%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (incl Class Test 15%) = 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr A Kohnle (TBC)			
Module teaching staff:	Dr A Kohnle (TBC)			

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PH3074 Electronics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Mon, Wed, Fri, 11.00 am Fri lab (TBC)			
This module provides a basic grounding in practical electronics. It introduces and develops the basic principles underlying the synthesis and analysis of analogue circuits. The module is divided into two parts: passive circuits, beginning with a review of dc circuit theory before moving onto complex impedance, passive ac circuits and diode applications; active circuits and amplifiers, including simple bipolar and FET amplifiers, operational and instrumentation amplifiers and applications.				
Programme module type:	Compulsory for Physics MPhys Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503)			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, tutorials or short lab sessions			
	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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr P Cruickshank (TBC)			
Module teaching staff:	Dr P Cruickshank (TBC)			

PH3080 Computational Physics				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	One of Mon 2-4, Tue 2-4, Tue 4-6 and one of Thu 2-4, Thur 4-6, Fri 2-4 (TBC)			
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 is then on the ways in which Mathematica can be used for problem solving in physics and astrophysics.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Mathematics and Physics, Mathematics and Theoretical Physics.			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503)	Anti-requisite(s):	PH3082	
Required for:	This or PH3082 or similar is recommended for all physics and astronomy level 4 and 5 modules			
Learning and teaching methods and delivery:	Weekly contact: 4 hours supervised PC Classroom			
	Scheduled learning: 41 hours		Guided independent study: 59 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 59%, Coursework = 41%			
	As used by St Andrews: 3-hour Computer-based Examination = 50%, Coursework (Quizzes) = 50%			
Re-assessment pattern:	No Re-assessment available - laboratory based			
Module coordinator:	Dr M Mazilu (TBC)			
Module teaching staff:	Dr M Mazilu, Dr A Gillies, Dr G Smith (TBC)			

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PH3081 Mathematics for Physicists			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	10.00 am Tue, Thu and even Mon, 2.00 pm odd Mon (TBC)		
<p>The module aims to develop mathematical techniques that are required by a professional physicist or astronomer. There is particular emphasis on the special functions which arise as solutions of differential equations which occur frequently in physics, and on vector calculus. Analytic mathematical skills are complemented by the development of computer-based solutions. The emphasis throughout is on obtaining solutions to problems in physics and its applications. Specific topics to be covered will be Fourier transforms, the Dirac delta function, partial differential equations and their solution by separation of variables technique, series solution of second order ODEs, Hermite polynomials, Legendre polynomials and spherical harmonics. The vector calculus section covers the basic definitions of the grad, div, curl and Laplacian operators, their application to physics, and the form which they take in particular coordinate systems.</p>			
Programme module type:	Compulsory for Astrophysics, Single and Joint Physics, Theoretical Physics PH3081 is compulsory for Physics and Mathematics, Theoretical Physics and Mathematics if MT2003 or (MT2506 and MT2507) is not taken in Second Year		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503)	Anti-requisite(s):	PH3082, May be taken with MT2506 OR MT3504, but not with both
Required for:	All PH and AS level 4 and 5 modules, and second semester level 3 modules, unless other pre-requisite(s) (eg PH3082) taken.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures plus fortnightly tutorials.		
	Scheduled learning: 36 hours	Guided independent study: 114 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 = 20% (made up of Class Test = 15% and meaningful engagement with tutorial work = 5%)		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Dr C Baily (TBC)		
Module teaching staff:	Dr C Baily (TBC)		

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PH3082 Mathematics for Chemistry / Physics			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to Chemistry and Physics MSci students		
Planned timetable:	10.00 am odd Mon, Tue, Thu, 2.00 pm odd Mon, 3.00 pm Mon, and two x 2 hrs on two of Mon, Tue, Thu, Fri afternoons (TBC)		
<p>This module consists of the content and assessment of all of PH3081 and the first part of PH3080. 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 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.</p>			
Programme module type:	Compulsory for Chemistry and Physics MSci		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), entry to MSci Chemistry and Physics degree programme	Anti-requisite(s):	PH3080, PH3081, May be taken with MT2506 OR MT3504, but not with both
Required for:	All PH and AS level 4 and 5 modules, and second semester level 3 modules, unless other related taken (eg PH3080 and PH3081) taken.		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks), 2 x 2-hour PC Classroom supervised sessions (x 5 weeks), 1-hour tutorial (x 5 weeks)		
	Scheduled learning: 57 hours	Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 71%, Practical Examinations = 25%, Coursework = 4%		
	As used by St Andrews: 2-hour Written Examination = 60% Coursework = 40%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Dr C Baily (TBC)		
Module teaching staff:	Dr C Baily, Dr M Mazilu, Dr A Gillies, Dr G Smith (TBC)		

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PH3101 Physics Laboratory 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)			
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 BSc and MPhys, Chemistry and Physics MSci Optional for Astrophysics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503)			
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%			
Re-assessment pattern:	No Re-assessment available - laboratory based			
Module coordinator:	Dr C Rae (TBC)			
Module teaching staff:	Dr C Rae and others (TBC)			

PH4026 Signals and Information				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon (TBC)			
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)			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr P Cruickshank (TBC)			
Module teaching staff:	Dr P Cruickshank and Dr G Smith (TBC)			

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PH4027 Optoelectronics and Nonlinear Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Tue, Thu, 3.00 pm Fri (TBC)			
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.			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Prof I D W Samuel (TBC)			
Module teaching staff:	Prof I D W Samuel, Dr M Mazilu (TBC)			

PH4028 Advanced Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	12.00 noon even Mon, Tue and Thu, 4 pm odd Fri (TBC)			
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. The mathematics of complex analysis is introduced to allow this to be used for relevant quantum mechanics problems. Scattering theory is developed using partial waves and Green's functions, leading to a discussion of quantum degenerate gases. Advanced topics in perturbation theory including WKB approximation for exploring differential equations. The density matrix formalism as the general state description in open quantum systems is presented; open system dynamics are described within the formalism of the density matrix master equation. Quantum information processing is covered, including concepts such as qubits, quantum entanglement, quantum teleportation, and measurement based quantum computing.				
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, PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr B Lovett (TBC)			
Module teaching staff:	Dr B Lovett (TBC)			

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PH4031 Fluids				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am even Mon, Tue, Thu, 2.00 pm odd Tue (TBC)			
<p>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.</p>				
Programme module type:	Two of PH4031, AS4011, AS4012, AS4025, AS4015 compulsory for Astrophysics BSc Two of PH4031, AS4025, AS4015 compulsory for Astrophysics MPhys Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Prof M Jardine (TBC)			
Module teaching staff:	Prof M Jardine (TBC)			

PH4032 Special Relativity and Fields				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	3.00 pm Tue, 4.00 pm Tue, Fri (TBC)			
<p>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.</p>				
Programme module type:	Compulsory for Theoretical Physics, Theoretical Physics and Mathematics Optional for Astrophysics, Physics, Physics and Mathematics			
Pre-requisite(s):	PH3007, PH3081 (or MT equivalent), PH4038			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr N Korolkova (TBC)			
Module teaching staff:	Dr N Korolkova (TBC)			

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PH4034 Laser Physics 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am Mon, Wed, Fri (TBC)			
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			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])			
Required for:	PH5016 (unless PH4035 is taken) - 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr F Koenig (TBC)			
Module teaching staff:	Dr F Koenig (TBC)			

PH4035 Principles of Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 3 pm even Tue (TBC)			
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			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr F Koenig (TBC)			
Module teaching staff:	Dr F Koenig (TBC)			

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PH4036 Physics of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	12.00 noon Mon, Tue, Thu (TBC)			
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. The analysis of musical instruments naturally culminates in a look at how musical sound may be synthesised.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, [MT2001 or (MT2501 and MT2503)], Admission to an Honours programme in the School of Physics and Astronomy and prior or concurrent attendance at PH3081 or PH3082			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr J Kemp (TBC)			
Module teaching staff:	Dr J Kemp (TBC)			

PH4038 Lagrangian and Hamiltonian Dynamics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	10.00 am even Mon, Tue, Thu, 2.00 pm odd Fri (TBC)			
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 the central force problem (orbits and scattering) and coupled oscillators.				
Programme module type:	Compulsory for Astrophysics MPhys, Physics MPhys, Theoretical Physics One of PH4038 and MT4507 compulsory for Theoretical Physics and Mathematics Optional for Astrophysics BSc, Chemistry and Physics MSci, Physics BSc, Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])			
Anti-requisite(s):	MT4507			
Learning and teaching methods and delivery:	Weekly contact: 2 or 3 lectures and some 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr B Braunecker (TBC)			
Module teaching staff:	Dr B Braunecker (TBC)			

PH4039 Introduction to Condensed Matter Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Wed, Fri, 2.00 pm Fri			
This module explores how the various thermal and electrical properties of solids are related to the nature and arrangement of their constituent atoms. For simplicity, emphasis is given to crystalline solids. The module covers: the quantum-mechanical description of electron motion in crystals; the origin of band gaps and insulating behaviour; the reciprocal lattice and the Brillouin zone, and their relationships to X-ray scattering measurements; the band structures and Fermi surfaces of simple tight-binding models; the Einstein and Debye models of phonons, and their thermodynamic properties; low-temperature transport properties of insulators and metals, including the Drude model; the physics of semiconductors, including doping and gating; the effect of electron-electron interactions, including a qualitative account of Mott insulators; examples of the fundamental theory applied to typical solids.				
Programme module type:	Compulsory for Physics, Theoretical Physics, Chemistry and Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 concurrently) or [MT2003 or (MT2506 and MT2507)], PH3061 or CH3712			
Co-requisite(s):	PH3061 unless taken previously, PH3082 unless it or PH3081 taken previously	Required for:	PH4044, PH5024	
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr C Hooley (TBC)			
Module teaching staff:	Dr C Hooley (TBC)			

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PH4040 Nuclear and Particle Physics with Advanced Skills			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students on the Physics and Philosophy, and Physics and Computer Science, Physics and Mathematics, Theoretical Physics and Mathematics programmes.		
Planned timetable:	14.00 Tue, Noon Wed and Fri (all from week 4), 10.00 Wed, occasional 10.00 Fri (TBC)		
<p>The first aim of this module is to describe in terms of appropriate models, the structure and properties of the atomic nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: nuclear sizes, binding energy, spin dependence of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; spin-orbit coupling; energetics of betadecay, alpha-decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks, and ideas that go beyond the standard model. The second aim of this module is to develop research skills, and oral and written communication skills in science. Participants will be given training in the use of bibliographic databases, use of the scientific literature, oral and written communication skills, and will develop these skills through structured assignments.</p>			
Programme module type:	Compulsory for Physics and Philosophy, and Physics and Computer Science and Joint Honours degrees with Mathematics		
Pre-requisite(s):	PH3061, PH3062, Entry to BSc Honours in Philosophy and Physics or Computer Science and Physics or Mathematics and Physics or Theoretical Physics and Mathematics		
Anti-requisite(s):	PH4022, PH3014, PH4041		
Learning and teaching methods and delivery:	Weekly contact: 3 x lectures (x 7 weeks) plus 6 further lectures, 4 tutorials, 1 workshop and 2 hours of giving and evaluating tasks.		
	Scheduled learning: 34 hours	Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Dr A Kohnle (TBC)		
Module teaching staff:	Dr A Kohnle, Dr B D Sinclair, and others (TBC)		

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PH4041 Atomic, Nuclear, and Particle Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	2.00 pm Tue, 12.00 noon Wed and Fri (TBC)			
<p>The aim of this module is to describe in terms of appropriate models, the structure and properties of the atom, including its nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: electron cloud model of an atom, electron spin and magnetic moment, spin-orbit interactions, revision of single-electron atom and brief qualitative extension to multi-electron atoms, selection rules and line intensities for electric-dipole transitions; nuclear sizes, binding energy, properties of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; 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.</p>				
Programme module type:	Compulsory for BSc and MPhys Astrophysics BSc and MPhys Physics MPhys Theoretical Physics MSci Chemistry and Physics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3061 and PH3062			
Anti-requisite(s):	PH4022, PH4037, PH4040			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures per week with total of 3 replaced by a tutorial			
	Scheduled learning: 32 hours		Guided independent study: 120 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 (quizzes) = 10%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr A Kohnle (TBC)			
Module teaching staff:	Dr A Kohnle, Dr D Cassettari (TBC)			

PH4042 Concepts in Atomic Physics and Magnetic Resonance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Planned timetable:	9.00 am odd Mon, 2.00 pm even Tue, 9.00 am Wed and Fri 9.00 (TBC)			
<p>This module builds on the atomic physics covered in PH4041 to look at the atomic structure of helium and many-electron atoms, magnetic interactions within the atom (leading to fine and hyperfine splitting), the Zeeman effect, and topics in atom-light interaction. These well-established concepts are then used in contemporary topics such as cold atom physics and magnetic resonance, both of which are current research topics within the School.</p>				
Programme module type:	Optional for all degrees in the School of Physics & Astronomy.			
Pre-requisite(s):	PH3061, PH3062, (PH4041 or special permission from the School)	Anti-requisite(s):	PH4037	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures per week with total of 3 replaced by a tutorial			
	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: 2-hour Written Examination = 80%, Coursework = 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr G Smith (TBC)			
Module teaching staff:	Dr D Cassettari, Dr G Smith, Dr J Lovett, Dr P Wahl (TBC)			

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PH4043 Studies in Physics and Chemistry				
SCOTCAT Credits:	5	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the honours years of the joint Chemistry and Physics degree programme.			
Planned timetable:	To be arranged.			
This module, which is for students on the joint degree programme Chemistry and Physics, provides guidance on literature research and communication skills. Students choose area(s) of interest relevant to the joint degree to explore and to write a review article and a provide a short presentation. The module thus addresses important professional skills, develops subject knowledge, and explicitly brings together the two halves of the degree programme.				
Programme module type:	Compulsory for the MSci in Chemistry and Physics			
Pre-requisite(s):	CH3441, PH3082, PH3061 This module is available only to students in the honours years of the joint degree programme in Chemistry and Physics			
Anti-requisite(s):	PH3014			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 4 weeks), 1-hour tutorial (x 5 weeks)			
	Scheduled learning: 9 hours		Guided independent study: 41 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework (including Presentation (20%))= 100%			
Re-assessment pattern:	No re-assessment available.			
Module coordinator:	Dr B Sinclair (TBC)			
Module teaching staff:	Dr B Sinclair (TBC)			

PH4044 Advanced Condensed Matter Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students on a programme in the School of Physics & Astronomy.			
Planned timetable:	To be arranged.			
This module builds on concepts taught in Introduction to Condensed Matter Physics (PH4039) to introduce more advanced theoretical concepts and lay the foundations required to understand the challenges in current research in condensed matter physics. Topics covered in this module include advanced techniques for band-structure determination, superconductivity and magnetism as well as the physics of semiconductor electronics. The module will further prepare students for more independent learning. The module will be 100% continuously assessed, including a journal club presentation, problem sheets and computational problems to serve as an introduction to advanced modelling and data analysis in condensed matter physics.				
Programme module type:	Optional for all degrees in the School of Physics & Astronomy			
Pre-requisite(s):	MT2501, MT2503, PH3061 and (PH3080 or PH3082) and PH4039	Required for:	PH5024	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials (x 11 weeks), 1 computing hour			
	Scheduled learning: 41 hours		Guided independent study: 109 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Oral Examination = 30%, Coursework (computing project - 40%, Journal Club presentation 30%) = 70%			
Re-assessment pattern:	Oral Examination = 100% - reassessment grade capped at 7			
Module coordinator:	TBC			
Module teaching staff:	Dr P Wahl, Dr A Di Falco, Dr B Braunecker, Dr P King			

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PH4105 Physics Laboratory 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)		
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		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)])		
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%		
Re-assessment pattern:	No Re-assessment available - laboratory based		
Module coordinator:	Dr C Rae (TBC)		
Module teaching staff:	Dr C Rae and others (TBC)		

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PH4111 Physics Project (BSc)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only in the final year of a Physics BSc 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. There is no specific syllabus for this module. Students taking the BSc degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally 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. A pre-project report precedes the experimental/computational/theoretical work of the project, and is expected to be directly relevant to the subsequent experimental studies.</p>				
Programme module type:	Compulsory for Single Honours Physics BSc, this or the other subject's project module for Joint Honours BSc Physics and Philosophy, Physics and Computer Science, BSc Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]). At least one of PH3101, PH4105			
Anti-requisite(s):	AS4103, AS5101, PH5101, PH5103, PH4796			
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: 18 hours		Guided independent study: 282 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>			
Re-assessment pattern:	No Re-assessment available - Final year project			
Module coordinator:	Dr P King (TBC)			
Module teaching staff:	School staff			

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PH5002 Foundations of Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	2.00 pm Mon, Tue, Fri (TBC)			
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:	Optional for Astrophysics MPhys, Physics MPhys, Chemistry and Physics, Theoretical Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3061 and PH3062.			
Required for:	Recommended, but not required, for PH5004			
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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr K Wan (TBC)			
Module teaching staff:	Dr K Wan (TBC)			

PH5003 Group Theory				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	12.00 noon Wed, Fri, 3.00 pm Mon (TBC)			
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 connectedness, compactness, and invariant integration; representation theory of groups, including similarity transformations, unitary representations, irreducible representations, characters, direct product representations, and the Wigner-Eckart theorem; applications to quantum mechanics, including calculation of energy eigenvalues and selection rules.				
Programme module type:	Optional for Astrophysics MPhys, Physics MPhys, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Prof J Cornwell (TBC)			
Module teaching staff:	Prof J Cornwell (TBC)			

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PH5004 Quantum Field Theory			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
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 (TBC)		
This module presents an introductory account of the ideas of quantum field theory and of simple applications thereof, including quantization of classical field theories, second quantization of bosons and fermions, the failure of single particle interpretation of relativistic quantum mechanics, solving simple models using second quantization, Feynman's path integral approach to quantum mechanics and its relation to classical action principles, field integrals for bosons and fermions, the relationship between path integral methods and second quantization, and a descriptive introduction to Green's functions and Feynman diagrams.			
Programme module type:	Compulsory for Theoretical Physics Optional for Astrophysics MPhys, Physics MPhys, Chemistry and Physics, Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3012, PH3061, PH3062 and (PH4038 or MT4507) and (PH4028 or MT3503).		
Co-requisite(s):	At least one of PH5002 and PH5012 is recommended but not compulsory.		
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 = 85%, Practical Examinations = 0%, Coursework = 15%		
	As used by St Andrews: 2-hour Written Examination = 85%, Coursework = 15%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module coordinator:	Dr J Keeling (TBC)		
Module teaching staff:	Dr J Keeling (TBC)		

PH5005 Laser Physics 2				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	10.00 am Mon, Tue, Wed, Thu (TBC)			
	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 MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	UG - PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3007, PH3061 and PH3062. PH4034 is recommended.			
Anti-requisite(s):	PH5180			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures or tutorials.			
	Scheduled learning: 40 hours		Guided independent study: 110 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr B Sinclair (TBC)			
Module teaching staff:	Dr L O'Faolain, Dr B Sinclair, Dr T Brown (TBC)			

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PH5011 General Relativity				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
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 (TBC)			
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 MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH3081 or PH3082, PH3081 or PH3082 or [MT2003 or MT2506 and MT2507]), Recommended PH4038 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr M Dominik (TBC)			
Module teaching staff:	Dr M Dominik (TBC)			

PH5012 Quantum Optics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	11.00 am Mon, 11.00 am Tue, Thu (TBC)			
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 MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), 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%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr N Korolkova (TBC)			
Module teaching staff:	Dr F Koenig, Dr N Korolkova (TBC)			

PH5014 The Interacting Electron Problem in Solids				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8			
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 (TBC)			
The aim of this module is to give an overview of developments in modern condensed matter physics. The difficulties of a full quantum mechanical treatment of electrons with strong interactions will be discussed. Common existing approaches such as the Hubbard and t-J models and Fermi liquid theory will be compared. It will be shown that, although microscopic models can explain aspects of magnetism, they have little chance of capturing many other features of the fascinating low-energy physics of these systems. Instead, we introduce the principle of emergence, and show how it suggests radically new approaches to the problem of complexity in condensed matter physics and beyond. In this module, formal lectures will be combined with reading assignments, and the assessment will be based on marked homework together with an oral presentation followed by questions.				
Programme module type:	Optional for Astrophysics MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH4039, PH3012, PH3061, PH3062.			
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 = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Presentation plus Oral Examination = 50%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr C Hooley(TBC)			
Module teaching staff:	Dr C Hooley (TBC)			

Physics & Astronomy - Honours Level - 2017/8 - August 2017

PH5015 Applications of Quantum Physics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	12.00 noon Mon, Tue, Thu (TBC)			
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 MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3061, PH3062.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures/tutorials, 1 x 3-hour research lab visit, 3 hours student presentations during the semester.			
	Scheduled learning: 30 hours		Guided independent study: 120 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%, Coursework = 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr D Cassettari (TBC)			
Module teaching staff:	Dr D Cassettari, Dr M Mazilu (TBC)			

PH5016 Biophotonics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	9.00 am Mon, Wed, Fri (TBC)			
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, optogenetics, 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 MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH4034 or PH4035.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures/tutorials.			
	Scheduled learning: 31 hours		Guided independent study: 119 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%, Coursework (including presentation)= 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module coordinator:	Dr T Brown (TBC)			
Module teaching staff:	Dr T Brown, Prof M C Gather, Dr C Penedo-Esteiro (TBC)			

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PH5023 Monte Carlo Radiation Transport Techniques				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Planned timetable:	11.00 am Wed, 2.00 pm Tue, Fri (TBC)			
This module introduces the theory and practice behind Monte Carlo radiation transport codes for use in physics, astrophysics, atmospheric physics, and medical physics. Included in the module: recap of basic radiation transfer; techniques for sampling from probability distribution functions; a simple isotropic scattering code; computing the radiation field, pressure, temperature, and ionisation structure; programming skills required to write Monte Carlo codes; code speed-up techniques and parallel computing; three-dimensional codes. The module assessment will be 100% continuous assessment comprising homework questions and small projects where students will write their own and modify existing Monte Carlo codes.				
Programme module type:	Optional for Astronomy and Physics			
Pre-requisite(s):	PH2012, plus at least one of: AS3013, PH3080. PH3081, PH3082.			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of lectures (x 6 weeks), 1-hour tutorials (x 5 weeks), during semester 3 x 3 hour supervised computer lab sessions			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 25%, Coursework = 50%			
	As used by St Andrews: Coursework (worksheets = 50%, 3-hour computing test = 25%, 1-hour Class Test = 25%) = 100%			
Re-assessment pattern:	No Re-assessment available - laboratory based			
Module coordinator:	Dr K Wood (TBC)			
Module teaching staff:	Dr K Wood (TBC)			

PH5024 Modern Topics in Condensed Matter Physics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to those in the final year of an MPhys programme			
Planned timetable:	10.00 am Tue, Wed, Thu (TBC)			
This module links with ongoing research in this area in the School, and includes the rich structural and electronic phases that can be stabilised at surfaces of materials and the physics of strongly correlated electron materials. It also covers some experimental techniques commonly used to characterise these, such as quantum oscillations, angle-resolved photoemission spectroscopy, and scanning tunnelling microscopy and spectroscopy. There is an emphasis on developing skills in critical reading of the scientific literature, presenting relevant works in class discussions, and performing computations. Tutorial sessions will be used to provide constructive feedback on problem sheets. Full-class discussions in a "journal club" style will aid in developing understanding of complex topics and critical reading of research papers.				
Programme module type:	Optional for MPhys programmes			
Pre-requisite(s):	PH3061, PH3062, (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3080, (PH4037 or PH4041), PH4039, PH4044			
Learning and teaching methods and delivery:	Weekly contact: 3 hours of lectures (x 7 weeks), 1-hour tutorials (x 4 weeks), 3-hour presentations (x 3 weeks)			
	Scheduled learning: 34 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available - assignment based			
Module coordinator:	Dr P Wahl			
Module teaching staff:	Dr P Wahl, Dr P King (TBC)			

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PH5024 Modern Topics in Condensed Matter Physics			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to those in the final year of an MPhys or MSci programme		
Planned timetable:	10.00 am Tue, Wed, Thu (TBC)		
<p>This module focuses on current topics in modern solid state physics, concentrating on the rich structural and electronic phases that can be stabilized at surfaces of materials. The first part will provide an overview of the distinct environment which surfaces provide, as well as detailing the experimental probes that can be used to investigate them. The second part of the module will introduce the concepts of topology in the context of electronic states in condensed matter systems. It will concentrate on topologically non-trivial states of matter, phases that are not characterised by spontaneous symmetry breaking but rather by a distinct topology of the underlying bulk electronic system, but with a particular focus on the implications for stabilizing exotic states at surfaces, and experimental probes of these. The module will employ continuous assessment for both formative and summative assessment, with an emphasis on developing skills in critical reading of scientific literature, presenting relevant works in class discussions and performing simple numerical calculations. Tutorial sessions will be used to provide constructive feedback on problem sheets throughout the course period. Full-class discussions in a "journal-club" style will aid in developing understanding of critical reading of research papers and complex topics, while written feedback on presentations will provide assessment of individual and group presentations delivered by students during the module.</p>			
Programme module type:	Optional for MPhys or MSci programmes		
Pre-requisite(s):	PH3061, PH3062, (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3080, (PH4037 or PH4041), PH4039, PH4044		
Learning and teaching methods and delivery:	Weekly contact: 3 hours of lectures (x 7 weeks), 1-hour tutorials (x 4 weeks), 3-hour presentations (x 2 weeks)		
	Scheduled learning: 31 hours	Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available - assignment based		
Module coordinator:	Dr P Wahl		
Module teaching staff:	Dr P Wahl, Dr P King (TBC)		

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PH5025 Nanophotonics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of Honours Programme or a taught postgraduate programme.			
Planned timetable:	To be arranged.			
<p>Nanophotonics deals with structured materials on the nanoscale for the manipulation of light. Photonic crystals and plasmonic metamaterials are hot topics in contemporary photonics, and form part of the School's research programme. The properties of these materials can be designed to a significant extent via their structure. Many of the properties of these nanostructured materials can be understood from their dispersion diagram or optical band-structure, which is a core tool that will be explored in the module. Familiar concepts such as optical waveguides and cavities, multilayer mirrors and interference effects will be used to explain more complex features such as slow light propagation and high Q cavities in photonic crystal waveguides and supercontinuum generation in photonic crystal fibres. Propagating and localized plasmons will be explained and will include the novel effects of super-lensing and advanced phase control in metamaterials.</p>				
Programme module type:	Optional for MPhys, MSci Chemistry and Physics			
Pre-requisite(s):	PH3061, [PH3081 or PH3082], [PH4027 or PH4034 or PH4035]	Anti-requisite(s):	PH5183	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures/tutorials (x 10 weeks)			
	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%			
Re-assessment pattern:	Oral re-assessment, grade capped at 7 = 100%			
Module coordinator:	Dr A Di Falco			
Module teaching staff:	Dr A Di Falco			

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PH5101 Physics Project (MPhys)			
SCOTCAT Credits:	60	SCQF Level 11	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Normally Available only to those in the final year of an MPhys Physics or MSci Chemistry and Physics degree programme		
Planned timetable:	Full time in second semester, following some work in first.		
<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. There is no specific syllabus for this module. Students taking the MPhys 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. A pre-project report precedes the experimental/computational/theoretical work of the project, and is expected to be directly relevant to the subsequent experimental studies.</p>			
Programme module type:	Compulsory for Physics MPhys Either PH5101 or CH5441 is compulsory for Chemistry and Physics		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3101 or PH4105		
Anti-requisite(s):	AS4103, AS5101, PH4111, PH5103, PH4796		
Learning and teaching methods and delivery:	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.		
	Scheduled learning: 300 hours	Guided independent study: 300 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (Review essay, Report, and Oral Examination) = 100%		
Re-assessment pattern:	No Re-assessment available - Final year project		
Module coordinator:	Dr P King (TBC)		
Module teaching staff:	School staff		

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PH5103 Project in Theoretical Physics (60)				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Normally available only to those in the final year of a Theoretical Physics or Mathematics and Theoretical Physics degree programme.			
Planned timetable:	Full time in second semester, following some work in first.			
<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>There is no specific syllabus for this module. Students taking the MPhys 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. A pre-project report precedes the computational/theoretical work of the project, and is expected to be directly relevant to the subsequent studies.</p> <p>Please note: Some projects will need learning from specific modules - please contact potential supervisors.</p>				
Programme module type:	Compulsory for Theoretical Physics One of PH5103, PH5104 or MT5999 is compulsory for Theoretical Physics and Mathematics			
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3062, PH3007, (PH4022 or PH4040 or PH4041), PH4032. Some projects will need learning from specific modules - please contact potential supervisors.			
Anti-requisite(s):	PH5102, PH5101, PH4111, AS4103, AS5101, PH4796			
Learning and teaching methods and delivery:	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 theoretical physics research seminars.			
	Scheduled learning: 36 hours		Guided independent study: 564 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (review essay, report, oral examination) = 100%			
Re-assessment pattern:	No Re-assessment available - Final year project			
Module coordinator:	Dr J Keeling (TBC)			
Module teaching staff:	School staff			

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PH5104 Project in Theoretical Physics (Mathematics and Theoretical Physics Students)			
SCOTCAT Credits:	65	SCQF Level 11	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students on the MPhys Mathematics and Theoretical Physics programme.		
Planned timetable:	Not applicable.		
<p>This project in theoretical physics research aims to develop joint-degree 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/calculations, and in the presentation of results. The project work is preceded by a substantial review on a topic which is normally related to the theme of the project. Students select a project from a list offered, and are supervised by a member of staff. Input from the School of Maths and Statistics is welcomed, but not required. Project choice, prep work, and some writing of the review is undertaken in sem 1, but most of the 65 credits' worth of work is done in sem 2. Students should provide the intellectual drive for the project work, taking on a role similar to that of a research student in the School. Note: Some projects will need learning from specific modules - please contact potential supervisors.</p>			
Programme module type:	One of PH5103, PH5104 or MT5999 is compulsory for Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3062, PH3007, (PH4022 or PH4040 or PH4041), PH4032. Some projects will need learning from specific modules - please contact potential supervisors.		
Anti-requisite(s):	PH5103, PH5102, PH5101, PH4111, AS4103, AS5101, MT5999		
Learning and teaching methods and delivery:	Weekly contact: supervisor meeting, research seminar, biweekly peer group meeting		
	Scheduled learning: 36 hours	Guided independent study: 614 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 56%, Coursework = 44%		
	As used by St Andrews: Project = 100% (including Oral Examination)		
Re-assessment pattern:	No Re-assessment available.		
Module coordinator:	Dr J Keeling		
Module teaching staff:	School staff		

School of Psychology & Neuroscience

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level, 4000-level or 5000-level modules must consult with the relevant Honours Adviser within the School to confirm they are permitted to enter the module.

Neuroscience (PN) modules

PN3312 Pharmacology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lectures: 11.00 am Mon, Tue 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 (i.e. 'with') and Psychology 'with' Degree programmes.		
Pre-requisite(s):	two of: BL2301, BL2302, BL2305 OR BL2306	Anti-requisite(s):	BL3312
Required for:	PN4299		
Learning and teaching methods and delivery:	Weekly contact: Lectures and tutorials: 27 hours in total, Usually 3 lectures or tutorials (x 11 weeks) Practicals: 2 x 3 hours during 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: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr G Doherty		
Module teaching staff:	Dr A Butler, Dr G Doherty, Dr W Li, Dr G B Miles, Dr R Ramsay, Dr K Spencer, Dr L Aitken		

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PN3313 Neuroscience			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Planned timetable:	Lectures: 12.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module covers biochemical, cellular and behavioural aspects of the nervous system in health and disease. 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 also examined. 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, and mechanisms of neuronal cell loss.</p>			
Programme module type:	Compulsory for Neuroscience. Optional for Behavioural Biology, Cell Biology, Evolutionary Biology, Zoology and all Biology Joint or Major/Minor (i.e. 'with') and Psychology 'with' Degree programmes.		
Pre-requisite(s):	BL2301, BL2305	Anti-requisite(s):	BL3313
Required for:	PN4299		
Learning and teaching methods and delivery:	Weekly contact: 29 hours of lectures or tutorials in total, 3 x 3-hour practicals and 4 hours of labs during the semester.		
	Scheduled learning: 42 hours	Guided independent study: 158 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%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr G Miles		
Module teaching staff:	Prof F Gunn-Moore, Prof K Sillar, Dr S Pulver, Dr G Miles, Dr W Heitler, Dr W Li, Dr G Doherty		

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PN4230 Neurodegeneration and Aging				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	Seminars: 3.00 pm - 4.00 Mon, 1.00 pm - 2.00 pm Thu (weeks 1-5); Seminars: 12.00 pm - 2.00 pm Thu (weeks 7 and 9-11); Labs: 2.00 pm - 5.00 pm Tues, Wed (week 8)			
In this module, students will develop a detailed understanding of molecular neuroscience. Work will focus at the biochemical and molecular level, so that detailed knowledge of signalling pathways will be gained. The module concentrates on three key areas relating to neurodegenerative processes. 1) How neurons stay alive 2) The aging nervous system: Changes that can 'prime' neurons for degeneration, degenerative disorders - risks, pathology, treatments. Including a practical session 3) How the nervous system responds to neurodegenerative diseases, with particular focus on Alzheimer's disease.				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor (i.e. 'with') and Psychology 'with' Degree programmes.			
Pre-requisite(s):	PN3313, BL3303	Anti-requisite(s):	BL4230	
Learning and teaching methods and delivery:	Weekly contact: Seminars: up to 2 hours per week (to a total of 18 hours) and 2 x 3-hour practicals during the semester.			
	Scheduled learning: 24 hours		Guided independent study: 126 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%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr G Doherty			
Module teaching staff:	Prof F Gunn-Moore, Dr G Doherty, Dr M Andrews			

PN4231 Neuromodulation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	Lectures: 11.00 am - 12.00 noon Tue and 10.00 am - 11.00 am Fri. Practicals to be arranged.			
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.				
Programme module type:	Optional for Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor (i.e. 'with') and Psychology 'with' 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%			
Re-assessment pattern:	1-hour Written Examination = 100%			
Module coordinator:	Dr S Pulver			
Module teaching staff:	Dr S Pulver, Prof K Sillar, Dr G Miles, Dr W Li, Dr W Heitler			

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PN4234 Synaptic Transmission			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Availability restrictions:	BSc Hons Neuroscience students have priority on this module		
Planned timetable:	Lectures: 11.00 am - 12:30 pm Wed and 12.00 noon - 1.00 pm Fri. Practicals to be arranged.		
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 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.			
Programme module type:	Optional for Behavioural Biology, Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor (i.e. 'with') and Psychology 'with' Degree programmes.		
Pre-requisite(s):	PN3313	Anti-requisite(s):	BL4234
Learning and teaching methods and delivery:	Weekly contact: A total of 6 x 1.5 hour seminars, 7 x 1 hour lectures and 2 x 3 hour practicals over 10 weeks		
	Scheduled learning: 22 hours	Guided independent study: 128 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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr W Li		
Module teaching staff:	Dr W Li, Dr S Pulver, Dr G Miles		

PN4235 Motoneurons: From Physiology to Pathology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Availability restrictions:	BSc Hons Neuroscience students have priority on this module		
Planned timetable:	Lectures : 2.00 pm - 3.00 pm Mon and 9.00 am - 10.30 am Fri. Practicals 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 (i.e. 'with') and Psychology 'with' Degree programmes.		
Pre-requisite(s):	PN3313	Anti-requisite(s):	BL4235
Learning and teaching methods and delivery:	Weekly contact: 10 hours of seminars, 6 hours of lectures and 6 hours of practical over the semester.		
	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%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr G Miles		
Module teaching staff:	Dr W Li, Prof K Sillar, Dr G Miles, Dr W Heitler		

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PN4299 Neuroscience Research Project			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Planned timetable:	To be arranged with the supervisor.		
<p>This project will involve extensive laboratory or field research to investigate a defined problem broadly within biology, psychology, or neuroscience appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Psychology and Neuroscience or the School of Biology who will guide and advise them in research activities throughout the academic year.</p>			
Programme module type:	PN4299 or BL4200 is compulsory for Neuroscience.		
Pre-requisite(s):	PN3312, PN3313	Anti-requisite(s):	BL4200, BL4201, PS4050, PS4299, PS4796, PS4797
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%		
Re-assessment pattern:	Practical Examination = 35%, Coursework = 65% re-assessment may include collecting further data		
Module coordinator:	Dr G H Doherty		
Module teaching staff:	Individual Supervisors across the School of Psychology and Neuroscience or the School of Biology		

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Psychology (PS) modules

PS3021 Research Design and Analysis 1			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Not available to General Degree Students.		
Planned timetable:	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: one of Mon 1-2, 2-3, 3-4, 4-5		
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.		
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser		
Required for:	PS3022		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory/tutorial class or seminar.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%		
	As used by St Andrews: 1-hour Written Examination = 25%, Coursework = 75%		
Re-assessment pattern:	1-hour Written Examination = 25%, Coursework = 75%, Re-assessment applies to failed components only		
Module coordinator:	Dr M W Oram		
Module teaching staff:	Dr M W Oram		

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PS3022 Research Design and Analysis 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: two of Mon 1-2, 2-3, 3-4, 4-5			
<p>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. There is also an emphasis on integration of concepts across a family of techniques based on correlation and regression. The syllabus will include such topics as multiple regression, path analysis, mediation analysis, factor analysis, ANOVA designs using regression, and moderated multiple regression. There is a focus on computerized data analysis, interpretation, and presentation. A section on qualitative analysis is included to highlight a broader range of research approaches and questions.</p>				
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, Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 X 2-hour lecture (weeks 1-11) and 2 X 1 hour laboratory/tutorial (weeks 1-10)			
	Scheduled learning: 42 hours		Guided independent study: 108 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%			
Re-assessment pattern:	2-hour Written Examination = 40%, Coursework = 60%, Re-assessment applies to failed components only			
Module coordinator:	Dr K Mavor			
Module teaching staff:	Dr K Mavor, Dr S Pehrson, P Gardner			

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PS3031 Conceptual Issues and Theoretical Perspectives				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 1-5 only)			
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 for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5).			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Mr P L Gardner			
Module teaching staff:	Mr P L Gardner			

PS3032 Assessment in Clinical Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 6-10 only).			
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, Neuroscience. Compulsory for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 6 - 10).			
	Scheduled learning: 15 hours		Guided independent study: 85 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%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Dr D Balslev			
Module teaching staff:	Dr D Balslev			

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PS3033 Developmental Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1.5-hour practical: Thu, either 2-3:30 or 3:30-5. (Module runs in weeks 1 - 5 only)			
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, Neuroscience. Compulsory for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002	Anti-requisite(s):	PS3010 and PS3011	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 1 - 5).			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Robbins			
Module teaching staff:	Dr E Robbins			

PS3034 Social Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only)			
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 for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5)			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr N Tausch			
Module teaching staff:	Dr N Tausch			

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PS3035 Cognitive and Behavioural Neuroscience				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only).			
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.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5)			
	Scheduled learning: 15 hours		Guided independent study: 85 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%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Dr I Jentzsch			
Module teaching staff:	Dr I Jentzsch			

PS3036 Evolutionary and Comparative Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 6 - 10 only).			
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 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.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 6 - 10).			
	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: Take-home format Written Examination (in 2 hour slot)= 100%			
Re-assessment pattern:	Take-home format Written Examination = 100%			
Module coordinator:	Dr C Hobaiter			
Module teaching staff:	Dr C Hobaiter			

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PS3037 Perception				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. Four 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 7 - 11 only).			
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 experimental psychology. Topic areas covered will include theories of human vision and their application to understanding our ability to perceive distinct visual properties, for example the shape, size, location and identity of objects. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3037 or PS3038 (normally PS3038) is compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and (weeks 7 - 11) and 4 x 1.5-hour laboratory class or seminar spread over Weeks 7 - 11.			
	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: 1.5-hour Written Examination = 100%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Prof J Harris			
Module teaching staff:	Prof J Harris			

PS3038 Cognition				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 7 - 11 only).			
The aim of this module is to develop an understanding of human cognitive processes. Topic areas covered include, for example, attention, memory, reasoning, and decision making. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory. Lectures will be accompanied by practical classes, in which students will gain experience of the experimental methods used in cognitive research, and seminars in which research papers will be critically evaluated.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3037 or PS3038 (normally PS3038) is compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 7 - 11).			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Otto			
Module teaching staff:	Dr T Otto			

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PS4040 Psychology Review			
SCOTCAT Credits:	10	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in a Psychology Honours Programme.		
Planned timetable:	Not applicable.		
<p>This module will foster the abilities needed to search, collate and integrate an extensive area of psychological literature. Emphasis will be placed on analytical and methodological issues, and this module therefore complements PS3021 and PS3022. A systematic approach to the analysis of a specific body of literature will be encouraged. Students are invited to identify preferred subject matters so long as they fall within the area of the supervisor's expertise. Supervision will be given to aid students in the collation, planning and organisational phases of their work. The review will be limited to 4,000 words.</p>			
Programme module type:	Compulsory for Single Honours Psychology, 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):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser		
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%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr R Sprengelmeyer		
Module teaching staff:	Dr R Sprengelmeyer		

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PS4050 Psychology Project (30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	Not applicable.			
<p>The aim of the project is to develop and foster the skills of experimental design, appropriate research management and statistical analysis. A wide choice of topics is possible, but the skills developed in modules PS3021, PS3022 and PS4040 are an essential preparation. The empirical part of the project may be conducted with another student, to allow greater research scope and the choice of more realistic problems, but all analysis and report-writing must be carried out individually. Topics range over all areas of psychology under active investigation in the School, and effort is made to arrange for students to work in one of their preferred areas.</p>				
Programme module type:	PS4050 or PS4299 or PS4796 or PS4797 or PN4299 is compulsory for Single Honours Psychology. PS4050 or PS4796 is compulsory for Joint Honours Psychology with BPS recognition. BL4200 or PS4050 or PS4796 - PS4797 is compulsory for Psychology with Biology.			
Pre-requisite(s):	PS4040, PS3021 and PS3022. Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Anti-requisite(s):	BL4200, PN4299, PS4299, PS4796, PS4797			
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%			
Re-assessment pattern:	Dissertation = 100% Re-assessment may include collecting further data			
Module coordinator:	Dr R Sprengelmeyer			
Module teaching staff:	Dr R Sprengelmeyer			

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PS4060 Review Essay				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>In this module students will select a key psychological research paper to review (subject to approval by module controller). Students will then submit an outline for formative feedback. The review will be composed independently thereafter. The review should include historical antecedents, including theoretical and methodological issues related to the area and specific problem of issue that the paper addresses. The review should also include an evidence-based evaluation of the impact of the key paper on psychological science and on society. The module includes 6 one-hour sessions on practical skills required to complete the review.</p>				
Programme module type:	Compulsory for Single Honours Psychology. Optional for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Anti-requisite(s):	BL4200, PN4299, PS4299			
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: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E M Bowman			
Module teaching staff:	TBC			

PS4069 Group Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>This module aims to develop an advanced understanding of selected topics relating to the psychology of groups and collective behaviour. It will address how behaviour is affected by the group context and examine the psychological mechanisms which shape how people act as group members. Teaching will be seminar based and students will be expected to read independently and contribute actively to sessions. Emphasis will be placed on the development of critical skills and the ability to relate individual studies and theories to broader conceptual debates in social psychology. More detailed module content will be announced in advance of student choices.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus tutorial time.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Prof S Reicher			
Module teaching staff:	Prof S Reicher			

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PS4071 Behavioural Neuroscience			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	11.00 am - 1.00 pm Thu		
<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, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience		
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.		
	Scheduled learning: 20 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%		
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module coordinator:	Dr E M Bowman		
Module teaching staff:	Dr E M Bowman		

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PS4074 Cognitive Psychology and the Emotional Disorders				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 11.00 am Mon			
<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, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr B Dritschel			
Module teaching staff:	Dr B Dritschel			

PS4079 Sex Differences and Gender Development				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	11.00 am - 1.00 pm Fri			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr G Brown			
Module teaching staff:	Dr G Brown			

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PS4083 Psychology of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
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, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr I Jentsch			
Module teaching staff:	Dr I Jentsch			

PS4084 Psychology of Art: Aesthetics and Individual Differences in Visual Function				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
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 examines the psychology of artistic activity and aesthetic appreciation, both from the standpoint of the artistic object (e.g., painting), as well as the individual who creates or appreciates art. Why are some things more aesthetically pleasing than others? Why do some people have a greater capacity to create aesthetic things? The module will explore the links between aesthetic creation and appreciation on the one hand and perceptual and cognitive processes on the other. These links will be examined from behavioural and neurological viewpoints. A significant emphasis will be on the neurological conditions that heighten differences in the capacity to create and appreciate aesthetic objects, including mental disorders (e.g., frontotemporal dementia, autism, epilepsy) and atypical cognitive development (e.g., synaesthesia, dyslexia). This will be a critical seminar style module with readings and discussions.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr D Vishwanath			
Module teaching staff:	Dr D Vishwanath			

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PS4085 Evolution and Development of Social and Technical Intelligence			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on MSc Evolutionary and Comparative Psychology: the Origins of Mind		
Planned timetable:	11.00 am - 1.00 pm Fri		
<p>The last two decades have witnessed a surge of research on social and technical intelligence, both in humans and an increasingly wide range of non-human animal species. This module surveys the principal discoveries, integrating field and captive studies, as well as both observational and experimental methodologies, to trace the evolution and development of aspects of social intelligence such as imitation and theory of mind, and technical intelligence, such as tool use and understanding of causality. Key aims include appreciating the range of methodologies that have been developed and how these can be used to trace the evolution and ontogeny of the underlying psychological mechanisms.</p>			
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.		
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser		
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Take Home Written Examination = 75%, Coursework = 25%		
Re-assessment pattern:	Take Home Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module coordinator:	Dr C Cross		
Module teaching staff:	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
Academic year:	2017/8			
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on MSc in Evolutionary and Comparative Psychology: the Origins of Mind			
Planned timetable:	9.00 am - 11.00 am Fri			
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, Neuroscience.			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr J-C Gomez			
Module teaching staff:	Dr J-C Gomez			

PS4089 Neural Basis of Episodic Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	11.00 am - 1.00 pm Tue			
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.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Written Take Home Examination = 75%, Coursework = 25%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J A Ainge			
Module teaching staff:	Dr J A Ainge			

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PS4090 Face Perception and Human Attraction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 11.00 am Wed			
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.				
Programme module type:	Programme module type: Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 0.5-hour lectures, 1.5-hour seminars and 1-hour office hour throughout the semester.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof D Perrett			
Module teaching staff:	Prof D Perrett			

PS4091 Computer-aided Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours Programme, or Research Methods in Psychology (MSc)			
Planned timetable:	9.00 am - 11.00 am Tue			
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.				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Pre-requisite(s):	PS3021, PS3022 - undergraduate only, Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Otto			
Module teaching staff:	Dr T Otto			

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PS4093 The Psychology of Dementia			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8		
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 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 module will include lectures and student presentations based around current research articles in the field.			
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience		
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser		
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar plus office hour.		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr M Ellis		
Module teaching staff:	Dr M Ellis		

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PS4094 Communicating Psychology and Neuroscience			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Availability restrictions:	Available only to students in the second year of the Honours programme		
Planned timetable:	11.00 am - 1.00 pm Mon		
<p>This module provides final year students within the School of Psychology and Neuroscience with first-hand experience of science communication through a series of expert led master-classes (e.g. Bright Club, BBC, print journalists, science bloggers), presentations and interaction with new media (e.g. podcasts, blogs, Twitter, FaceBook). This module will enable students to gain substantial experience of working to tight deadlines, evaluating how the media translates psychological/neuroscience findings and of communicating complex ideas at various different levels, including presenting work to the press, the public and school children. Topics covered may include: why scientists must communicate with the public; how psychology/neuroscience hits the headlines; evaluating media coverage; using new media to get the message across and designing a science exhibit. While of particular value to students aiming for a career in public engagement, these core skills are equally important for any career that requires good communication, including post-graduate study. In addition students will be required to monitor relevant periodicals and evaluate several new studies in psychology/neuroscience and so should expose students to the latest trends within the field.</p>			
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience		
Pre-requisite(s):	PS3021 or PN3313. Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser		
Anti-requisite(s):	ID4001 and ID4002		
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture, plus office hour and occasional fieldwork.		
	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%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr K Spencer		
Module teaching staff:	Dr K Spencer, Mr P L Gardner		

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PS4095 Psychopathology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	9.00 am - 11.00 am Mon			
This module aims to describe mental disorders from a psychodynamic, behavioural, cognitive, and neuropsychiatric perspective. Classification systems of mental disorders are compared and evaluated, and research methods and treatment strategies critically discussed. The clinical part of the module focuses on adult mental health (e.g., Mood disorders, Schizophrenia Spectrum disorders, Obsessive compulsive disorders, Trauma and Stress related disorders) and Developmental Psychopathology (e.g., Autism Spectrum disorders).				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 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%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr R Sprengelmeyer			
Module teaching staff:	Dr R Sprengelmeyer			

PS4096 Mechanisms of Behaviour: integrating psychological and neuroscience perspectives				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	12.00 noon - 2.00 pm Tue			
The aim of this module is to explore some of the many physiological and neural systems that modulate patterns of behaviour in a range of species, including humans. It will highlight the importance of integrating information from psychology and neuroscience disciplines in order to further our understanding of how and why animals and humans behave the way they do in different situations. The module will deal with examples of mechanisms across different levels of complexity (from genes to physiology). The module will include lectures and student presentations/journal club discussions based around current research articles in the field and a practical session with hands on experience of a physiological technique.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lecture (x 10 weeks), 1 practical class (x 4 weeks) plus office hour.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework (including presentation) = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr K Spencer			
Module teaching staff:	Dr K Spencer			

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PS4097 Research Methods in Cognitive Neuroscience				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	9.00 am - 11.00 am Tue			
<p>Tremendous progress in technology allows now to observe the brain in action to understand the physical bases of behaviour. This module showcases this state of the art approach.</p> <p>Guided by a team of lecturers with first-hand expertise in trans cranial magnetic stimulation, neurophysiology, electrophysiology, behavioural modelling, neuropsychology and functional magnetic resonance imaging the students will develop their ability to evaluate and propose cutting edge research. The course includes lectures and student led discussions of current research topics.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr D Balslev			
Module teaching staff:	Dr D Balslev, Dr T Otto, Dr J Ales, Dr G Miles			

PS4100 The Psychology of Terrorism				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	9.00 am - 11.00 am Fri			
<p>This module presents the psychological underpinnings of terrorist behaviour from a variety of perspectives. The course will assess individual- and group-/structural-level explanations of terrorism, discuss the strategic logic and moral justification of terrorism, and cover some of the psychological processes involved in the radicalisation of individuals and the operation of terrorist groups. The final part of the module will examine the effects of terrorism on constituencies and target groups and the implications of psychological insights for counter-terrorism measures.</p>				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience			
Pre-requisite(s):	Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2 hour lecture plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 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%			
Re-assessment pattern:	2-hour Written Examination = 50%, Coursework = 50%, Re-assessment applies to failed components only			
Module coordinator:	Dr N Tausch			
Module teaching staff:	Dr N Tausch			

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PS4299 Psychology Project (60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	To be arranged with the supervisor.			
This project will involve extensive laboratory or field research to investigate a defined problem broadly within psychology. 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 who will guide and advise them in research activities throughout the academic year.				
Programme module type:	Optional for Single Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography.			
Pre-requisite(s):	PS3021, PS3022 and PS4040. Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser			
Anti-requisite(s):	BL4200, PS4050, PS4060, PS4796, PS4797, PN4299			
Learning and teaching methods and delivery:	Weekly contact: 1-hour individual supervision sessions.			
	Scheduled learning: 20 hours		Guided independent study: 563 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%, Re-assessment may include collecting further data			
Module coordinator:	Dr R Sprengelmeyer			
Module teaching staff:	various			

PS4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2017/8 & 2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.				
Programme module type:	Optional for Joint or 'with' Honours in the School of Psychology & Neuroscience			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	More than 30 credits in other dissertation / project modules			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

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PS4797 Joint Project (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.				
Programme module type:	Optional for Joint or 'with' Honours in the School of Psychology & Neuroscience			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	Any other dissertation / project module			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module coordinator:	As per Letter of Agreement.			

Interdisciplinary (ID) modules

General degree students wishing to enter 3000-level modules and non-graduating students wishing to enter 3000-level or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are properly qualified to enter the module.

ID4001 Communication and Teaching in Science			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to Senior Honours students (Integrated Masters students may take in Senior Honours or their final year) 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: 39 hours	Guided independent study: 101 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%		
	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%)		
Re-assessment pattern:	No Re-Assessment available		
Module coordinator:	Dr B Sinclair		
Module teaching staff:	Dr A Naughton, Dr R Robinson, Prof C Baddeley, Dr T Gloster, Dr C Smith, Dr R Letham, Dr M Campbell, Dr B Sinclair, and visiting speakers (TBC)		

Interdisciplinary - 1000 & 2000 Level - 2017/8 - August 2017

ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2017/8 & 2018/9		
Availability restrictions:	Available only to students in the Schools of Classics, Divinity, English, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.		
Planned timetable:	To be arranged.		
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.			
Programme module type:	Optional for Classics, Divinity, English, Geography, History, International Relations, Modern Languages, Philosophy or Social Anthropology.		
Co-requisite(s):	If taken within Classics, Divinity, English, History, International Relations or Philosophy, a further 15-credit subject-specific module may be required.		
Learning and teaching methods and delivery:	Weekly contact: The module commences with an Induction Event at the University (3 hours). Students spend a minimum of 20 hours during the semester at their placement. 3 x 1-hour tutorials are held at the University during the semester. The module concludes with an oral presentation session.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%		
	As used by St Andrews: Coursework = 100% comprising: Written project proposal (10%) + written report (35%) = 45% Oral presentation (at University, assessed by module lecturers) = 30% A further 25% of Coursework is in the form of a report by their placement-mentor on the student's practical performance in the classroom on placement.		
Re-assessment pattern:	No Re-Assessment available		
Module coordinator:	Dr E Stoddart		
Module teaching staff:	Dr E Stoddart		

Interdisciplinary - 1000 & 2000 Level - 2017/8 - August 2017

ID4441 Combined Chemistry and Geology Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Academic year:	2018/9			
Planned timetable:	2 days per week.			
The research project at Level 4000 for Chemistry and Geology students only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised jointly by members of the academic staff in Chemistry and Geoscience. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	(ES4010 and CH4448) OR ID4441 Compulsory for Chemistry and Geology			
Pre-requisite(s):	Admission to stage 4 of BSc programme in Joint Honours Chemistry and Geology			
Anti-requisite(s):	CH4442-CH4448, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Reflection, laboratory work, library work, written and oral presentation preparation.			
	Scheduled learning: 34 hours		Guided independent study: 466 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:				
Module coordinator:	Dr T A Raub (Earth Sciences), Dr A Aitken (Chemistry)			

ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2017/8 & 2018/9			
Planned timetable:	To be arranged.			
This module provides an individual research project on a topic spanning the biological and geological sciences which allows the student to pursue in depth a topic of personal interest. The student works largely independently of supervision and has the opportunity to demonstrate individuality, initiative and enterprise. The project will be supported by advisors in both Biology and Geology. Skills of planning and executing research are learnt, as well as the ability to work independently, and present the results orally and in dissertation form (up to 10,000 words). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Compulsory for BSc 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%			
Re-assessment pattern:	No Re-Assessment available			
Module coordinator:	Dr S Mikhail and Dr T Raub			
Module teaching staff:	Dr T Raub			

Interdisciplinary - 1000 & 2000 Level - 2017/8 - August 2017

ID5059 Knowledge Discovery and Datamining			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2017/8 & 2018/9		
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 programming (typically R, SAS or python).</p>			
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci		
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%		
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%		
Module coordinator:	masters-coord-cs@st-andrews.ac.uk		

Honours Level Module Index - 2017/8 - August 2017

Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
ANCIENT HISTORY					
AN3034	Approaches to Ancient History	2017/8 & 2018/9	30	1	2.00 pm - 4.00 pm Thu.
AN4106	Persia and the Greeks	2017/8	30	1	2.00 pm - 4.00 pm Tue.
AN4146	The Supremacy of Greece: Athens and Sparta 479 - 362 BCE	2017/8	30	1	10.00 am - 11.00 am Wed and Fri
AN4428	Eight Scenes from the Life of Alexander	2017/8	30	2	2.00 pm - 4.00 pm Thu.
ANCIENT HISTORY AND ARCHAEOLOGY					
AA3020	Principles and Techniques in Archaeology	2017/8 & 2018/9	30	1	2.00 pm - 4.00 pm Thu
AA4001	Cities and Urban Life in Late Antiquity (300-700 CE)	2017/8	30	1	9.00 am - 11.00 am Wed
AA4122	Sacred Spaces in the Roman Empire	2017/8	30	2	9.00 am - 11.00 am Thu
AA4145	The Archaeology of Roman Britain	2017/8	30	2	2.00 pm - 4.00 pm Tue
ARABIC					
AR3401	Media Arabic 1	2017/8 & 2018/9	15	1	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm
AR3402	Media Arabic 2	2017/8 & 2018/9	15	2	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm
AR3411	Modern Arab Culture and Society	2017/8 & 2018/9	15	2	10.00 am Mon, 10.00 am Thu
AR3421	Arabic Short Stories 1	2017/8 & 2018/9	15	1	11.00 am Wed, 11.00 am Thu
AR3422	Arabic Short Stories 2	2017/8 & 2018/9	15	2	11.00 am Wed, 11.00 am Thu
AR3461	Key Texts in Classical Arabic Literature and Culture 1	2017/8 & 2018/9	15	1	2.00 pm Mon, 2.00 pm Thu
AR3462	Key Texts in Classical Arabic Literature and Culture 2	2017/8 & 2018/9	15	2	2.00 pm Mon, 2.00 pm Thu
AR4401	Advanced Arabic 1	2017/8 & 2018/9	15	1	3.00 or 4.00 pm Mon, 3.00 or 4.00 pm Thu (or 5.00 pm Thu in even weeks)
AR4402	Advanced Arabic 2	2017/8 & 2018/9	15	2	3.00 pm or 4.00 pm Mon, 3.00 pm or 4.00 pm Thu (or 5.00 pm Thu in even weeks)
AR4421	Exile and Identity	2017/8 & 2018/9	15	1	2.00 pm Tue, 2.00 pm Thu
AR4422	Novellas	2017/8 & 2018/9	15	2	4.00 pm Tue, 2.00 pm Thu
AR4461	Classical Arabic Poetry	2017/8	15	1	11.00 am Mon, 11.00 am Thu
AR4462	Classical Arabic Prose	2017/8 & 2018/9	15	2	11.00 am Mon, 11.00 am Thu
AR4999	Dissertation in Arabic Studies	2017/8 & 2018/9	30	Whole Year	To be arranged.
ART HISTORY					
AH3104	The Age of Klimt, Olbrich and Mucha	2017/8 & 2018/9	30	2	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)
AH3130	Approaches to Art History	2017/8 & 2018/9	30	1	11.00 am - 12.30 pm Mon and either 9.00 am - 10.30 am (2 groups) or 11.00 am - 12.30 pm (2 groups) Wed
AH3131	A Survey of Islamic Art	2017/8 & 2018/9	30	1	9.00 am - 11.00 am Wed (lecture) and either 10.00 am or 11.00 am Thu (seminar)
AH3196	Modern Art Beyond the West	2018/9	30	2	9.00 am - 11.00 am Thu (lecture) and either 3.00 or 4.00 pm Thu (seminar)
AH4050	Approaches to Persian Painting and the Arts of the Book	2017/8	30	2	9.00 am - 11.00 am Wed (lecture) and either 9.00 am or 11.00 am Thu (seminar)
AH4078	Art and Politics in France (1945 - 1975)	2018/9	30	2	To be arranged.
AH4081	The Scandinavian Art of Building and Design (1890-1960)	2017/8	30	2	9.00 am - 11.00 am Tue (lecture) and either 10.00 am or 11.00 am Wed (sem)
AH4097	60-Credit Honours Dissertation in Art History	2017/8 & 2018/9	60	Whole Year	As arranged with Supervisor and Honours Adviser
AH4099	30-Credit Dissertation in Art History	2017/8 & 2018/9	30	1 or 2	As arranged with Supervisor and Honours Adviser
AH4108	Post-war Scottish Art 1950-present	2017/8	30	1	11.00 am - 1.00 pm Tue (lecture), and either 11.00 am or 12.00 noon Fri (seminar)

Honours Level Module Index- 2017/8 - August 2017

Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
ART HISTORY (continued)					
AH4130	Realism and Symbolism in Russian Art 1860 - 1910	2017/8 & 2018/9	30	1	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)
AH4147	Classicism in Western Art: The Legacy of Greece and Rome	2017/8	30	1	11.00 am - 1.00 pm Thu (lecture) and either 3.00 pm or 4.00 pm Thu (seminar)
AH4148	Orientalism and Visual Culture	2017/8	30	1	11.00 am - 1.00 pm Wed (lecture) and either 9.00 am or 11.00 am Thu (seminar)
AH4156	Seeing the Sixties	2018/9	30	2	To be arranged.
AH4163	Approaches to Modern Sculpture	2018/9	30	1	To be arranged.
AH4165	Cubism and its Legacies	2018/9	30	1	To be arranged.
AH4166	Histories of Photography (1835 - 1905)	2017/8	30	2	11.00 am - 1.00 pm Wed (lecture) and either 9.00 am or 11.00 am Thu (seminar)
AH4167	Symbolism, Decadence and Modernity	2018/9	30	2	To be arranged.
AH4182	Principles and Protagonists of Italian Renaissance Architecture	2017/8	30	1	10.00 am Mon and 10.00 am Tue (lectures) and either 10.00 am or 11.00 am Wed (seminar)
AH4190	Romanticism and Visuality 1780 - 1830	2017/8	30	1	9.00 am Mon and Tue (lectures) and either 9.00 am or 10.00 am Wed (seminar)
AH4191	Art, Science and Technology 1700 - 1900	2017/8	30	2	11.00 am - 1.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)
AH4207	Receptions of Venetian Painting 1600 - 1800	2018/9	30	1	To be arranged.
AH4209	Portuguese Renaissance from Local to Global	2018/9	30	2	To be arranged.
AH4211	Islam and the Arts	2017/8	30	2	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 or 4.00 pm Fri (seminar)
AH4215	Contemporary Art and the Ethics of Fieldwork	2018/9	30	2	To be arranged.
AH4216	Mediaeval Islamic Painting	2018/9	30	2	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 pm or 4.00 pm Fri (seminar)
AH4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	1 or 2 or whole year	To be arranged.
AH4795	Joint Dissertation (60cr)	2017/8 & 2018/9	60	Whole Year	To be arranged.
ASTRONOMY (see also Physics)					
AS3013	Computational Astrophysics	2017/8 & 2018/9	15	2	2.00 pm - 5.30 pm Mon and Thu (TBC)
AS4010	Extragalactic Astronomy	2017/8 & 2018/9	15	1	12.00 noon Mon, Tue, Thu (TBC)
AS4011	The Physics of Nebulae and Stars 1	2017/8 & 2018/9	15	1	10.00 am Tue, Wed, Thu (TBC)
AS4012	The Physics of Nebulae and Stars 2	2017/8 & 2018/9	15	2	11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue (TBC)
AS4015	Gravitational and Accretion Physics	2017/8 & 2018/9	15	2	9.05 am - 12.00 noon Mon, Wed, Fri
AS4025	Observational Astrophysics	2017/8 & 2018/9	15	1	2.00 pm - 5.30 pm Mon and Thu, plus some nights. (TBC)
AS4103	Astrophysics Project (BSc)	2017/8 & 2018/9	30	Whole Year	Half time in second semester, plus some preparation in first semester.
AS5001	Advanced Data Analysis	2017/8 & 2018/9	15	1	9.00 am Tue, Thu, 10.00 am Mon, 12.00 noon Thu and 3.00 pm - 5.00 pm Tue (Lab) (TBC)
AS5002	Magnetofluids and Space Plasmas	2017/8 & 2018/9	15	1	11.00 am Mon, Tue, Thu (TBC)
AS5003	Contemporary Astrophysics	2017/8 & 2018/9	15	1	12.00 noon Wed, Fri and 3.00 pm Mon (TBC)
AS5101	Astrophysics Project (MPhys)	2017/8 & 2018/9	60	Whole Year	Full time in second semester, plus some preparation in first semester.

Honours Level Module Index - 2017/8 - August 2017

Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
BIOLOGY					
BL3000	Field Course	2017/8 & 2018/9	10	1	1-week residential course in summer vacation normally just prior to Orientation week.
BL3301	Protein Structure and Function	2017/8 & 2018/9	20	1	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3302	Gene Regulation	2017/8 & 2018/9	20	1	Lectures: 10.00 noon Mon, Tue and Wed Practicals: to be arranged.
BL3303	Membranes and Cell Communication	2017/8 & 2018/9	20	2	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3307	Evolution	2017/8 & 2018/9	20	1	Lectures: 11 am Mon, Tue and Wed Practicals: to be arranged.
BL3308	Aquatic Ecology	2017/8 & 2018/9	20	1	Lectures: 10.00 am Mon, Tue and Wed Practicals: residential field trip.
BL3309	Ecosystems and Conservation	2017/8 & 2018/9	20	2	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3310	Bioenergetics	2017/8 & 2018/9	20	2	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.
BL3311	Infection and Disease	2017/8 & 2018/9	20	2	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3315	Developmental Biology	2017/8 & 2018/9	20	2	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3316	Animal Plant Interactions	2017/8 & 2018/9	20	2	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.
BL3318	Biology of Marine Organisms	2017/8 & 2018/9	20	2	Lectures: 12 noon Mon, Tue and Wed Practicals: to be arranged.
BL3319	Animal Behaviour: A Quantitative Approach	2017/8 & 2018/9	20	2	Lectures: 9.00 am am Mon, Tue and Wed Practicals: to be arranged.
BL3320	Statistical and Quantitative Skills for Biologists	2017/8 & 2018/9	10	1	To be arranged.
BL3321	Advanced Critical Analysis Reading Party	2017/8 & 2018/9	10	1	1 week in summer vacation just prior to Orientation week
BL3322	Basic Biochemistry Laboratory	2017/8 & 2018/9	10	1	1 week in summer vacation just prior to Orientation week
BL3323	Terrestrial Zoology	2017/8 & 2018/9	20	1	9.00 am Mon, Tue, Wed. Practical: to be arranged.
BL4200	Literature-based Research Project	2017/8 & 2018/9	30	Whole Year	To be arranged.
BL4201	Experimental Research Project	2017/8 & 2018/9	60	Whole Year	To be arranged.
BL4210	Practical Skills for Molecular Biology and Biochemistry	2017/8 & 2018/9	15	1	To be arranged.
BL4211	Antimicrobials - Mode of Action and Resistance	2017/8 & 2018/9	15	1	To be arranged.
BL4212	How Enzymes Work	2017/8 & 2018/9	15	1	To be arranged.
BL4213	Molecular Virology	2017/8 & 2018/9	15	1	To be arranged.
BL4215	Bacterial Virulence Factors	2017/8 & 2018/9	15	1	To be arranged.
BL4216	Structure-based Drug Discovery	2017/8 & 2018/9	15	1	To be arranged.
BL4222	Metabolic and Clinical Biochemistry	2017/8 & 2018/9	15	1	To be arranged.
BL4223	Molecular and cell biology of eukaryotic DNA replication	2017/8 & 2018/9	15	1	To be arranged.
BL4224	Molecular Mechanisms of Membrane Trafficking	2017/8 & 2018/9	15	2	To be arranged.
BL4232	Neuroethology	2017/8 & 2018/9	15	1	To be arranged.
BL4249	Scientific Diving	2017/8 & 2018/9	15	2	Full Time 2-3 weeks in January/February
BL4251	Tropical Marine Biology	2017/8 & 2018/9	15	1	To be arranged.
BL4254	Fisheries Research	2017/8 & 2018/9	15	2	To be arranged.
BL4255	Marine and Environmental Biotechnology	2017/8 & 2018/9	15	1	To be arranged.
BL4256	Marine Bioacoustics	2017/8 & 2018/9	15	2	To be arranged.
BL4258	Foraging in Marine Mammals	2017/8 & 2018/9	15	1	To be arranged.
BL4259	Marine Mammals and Man	2017/8 & 2018/9	15	2	To be arranged.

Honours Level Module Index- 2017/8 - August 2017

Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
BIOLOGY (continued)					
BL4260	Biological Oceanography	2017/8 & 2018/9	15	1	To be arranged.
BL4262	Environmental Drivers of Marine Habitats	2017/8 & 2018/9	15	1	To be arranged.
BL4263	The Question of Culture in Cetaceans	2017/8 & 2018/9	15	2	To be arranged.
BL4266	Conservation Research Methods	2017/8 & 2018/9	15	1	To be arranged.
BL4268	Scientific Communication in Biodiversity and Conservation	2017/8 & 2018/9	15	2	To be arranged.
BL4270	Plant-environment Interactions	2017/8 & 2018/9	15	2	To be arranged.
BL4274	Evolutionary Developmental Biology	2017/8 & 2018/9	15	1	To be arranged.
BL4275	Evolution in Action	2017/8 & 2018/9	15	1	To be arranged.
BL4278	Biology of Dinosaurs and Other Extinct Vertebrates	2017/8 & 2018/9	15	1	To be arranged.
BL4280	Evolution and Human Behaviour	2017/8 & 2018/9	15	1	To be arranged.
BL4281	Animal Communication and Cognition	2017/8 & 2018/9	15	1	To be arranged.
BL4282	Biology and Behaviour of Social Insects	2017/8 & 2018/9	15	2	To be arranged.
BL4285	Complex Systems in Animal Behaviour	2017/8 & 2018/9	15	2	To be arranged.
BL4286	Advanced Topics in Evolution	2017/8 & 2018/9	15	2	To be arranged.
BL4301	Polar Ecology: A field course in Antarctica	2017/8 & 2018/9	15	Whole Year	To be arranged.
BL4601	Research Project Development and Methodology	2017/8 & 2018/9	20	Whole Year	Distance learning during External Placement
BL4602	External Research Placement	2017/8 & 2018/9	100	Whole Year	External placement
BL5410	Advanced Topics in Biomolecular Sciences	2017/8 & 2018/9	30	Whole Year	To be arranged.
BL5420	Advanced Microscopy and Image Analysis - Seeing is Believing	2017/8 & 2018/9	15	1	To be arranged.
BL5421	Chromatin and Genome Stability	2017/8 & 2018/9	15	2	To be arranged.
BL5440	Major Review Paper in Evolutionary Biology	2017/8 & 2018/9	15	1	To be arranged.
BL5441	Animal Cognition	2017/8 & 2018/9	15	1	To be arranged.
BL5499	Advanced Laboratory Research Project	2017/8 & 2018/9	60	Whole Year	variable, as needed
CHEMISTRY					
CH3431	Chemistry Workshop	2017/8 & 2018/9	10	Whole Year	To be arranged.
CH3441	Mini Chemistry Project	2017/8 & 2018/9	20	2	9.00 am - 12.30 pm Mon - Fri for 5 weeks (Weeks 7 - 11).
CH3512	Organometallic Chemistry	2017/8 & 2018/9	10	2	To be arranged.
CH3513	Chemistry of Materials	2017/8 & 2018/9	10	2	To be arranged.
CH3514	Physical Inorganic Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH3521	Inorganic Chemistry Laboratory	2017/8 & 2018/9	10	2	9.00 am - 12.30 pm (Weeks 1 - 5)
CH3612	Synthetic Methodology	2017/8 & 2018/9	10	2	To be arranged.
CH3613	Carbohydrate and Nucleic Acid Chemistry	2017/8 & 2018/9	10	2	To be arranged.
CH3615	Mechanism in Organic Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH3621	Organic Chemistry Laboratory	2017/8 & 2018/9	10	1	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)
CH3622	Organic Chemistry Laboratory (Materials)	2017/8 & 2018/9	10	1	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)
CH3712	Quantum Theory of Atoms, Molecules and Solids	2017/8 & 2018/9	10	2	To be arranged.
CH3715	Introduction to Analysis of Materials	2017/8 & 2018/9	10	2	To be arranged.
CH3716	Quantitative Aspects of Medicinal Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH3717	Statistical Mechanics and Computational Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH3721	Physical Chemistry Laboratory	2017/8 & 2018/9	10	1	9.00 am - 1.00 pm Mon to Fri (Weeks 7-10)
CH4441	External Placement	2017/8 & 2018/9	90	Whole Year	Please Contact School
CH4442	Chemistry Research Project	2017/8 & 2018/9	50	Whole Year	2 days per week, to be arranged.

Honours Level Module Index - 2017/8 - August 2017

Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
CHEMISTRY					
CH4448	Chemistry Project for Chemistry and Geology	2017/8 & 2018/9	20	1	To be arranged.
CH4453	Chemistry Distance Learning (Materials Chemistry)	2017/8 & 2018/9	10	Whole Year	n/a - Distance Learning
CH4455	Chemistry Distance Learning (Inorganic Chemistry)	2017/8 & 2018/9	10	Whole Year	n/a - Distance learning
CH4456	Chemistry Distance Learning (Organic Chemistry)	2017/8 & 2018/9	10	Whole Year	n/a - Distance Learning
CH4458	Chemistry Distance Learning (Physical Chemistry)	2017/8 & 2018/9	10	Whole Year	n/a - Distance learning
CH4461	Integrating Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH4514	Advanced Metal Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH4515	Advanced Main Group Chemistry	2017/8 & 2018/9	10	2	To be arranged.
CH4612	Blockbuster Pharmaceuticals	2017/8 & 2018/9	10	2	To be arranged.
CH4614	Heterocyclic and Pericyclic Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH4615	Fragrance, Food and Colour Chemistry	2017/8 & 2018/9	10	2	To be arranged.
CH4715	Functional Materials and Electrons in Solids	2017/8 & 2018/9	10	2	To be arranged.
CH4716	Electrochemistry and Computational Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH4717	Fundamentals of the Spectroscopy of Molecules and Solids	2017/8 & 2018/9	10	2	To be arranged.
CH5441	Research Project	2017/8 & 2018/9	50	Whole Year	2 days per week, to be arranged.
CH5461	Integrating Chemistry	2017/8 & 2018/9	10	1	To be arranged.
CH5511	Homogeneous Catalysis	2017/8 & 2018/9	10	1	To be arranged.
CH5517	Advanced Physical Inorganic Chemistry	2017/8	10	2	To be arranged.
CH5518	Blockbuster Solids	2017/8 & 2018/9	10	2	To be arranged.
CH5611	Asymmetric Synthesis	2017/8 & 2018/9	10	1	To be arranged.
CH5612	Natural Products, Biosynthesis and Enzyme Co-factors	2017/8 & 2018/9	10	2	To be arranged.
CH5613	Reactive Intermediates	2017/8 & 2018/9	10	2	To be arranged.
CH5614	Chemical Biology	2017/8 & 2018/9	10	2	To be arranged.
CH5616	Molecular Recognition	2017/8 & 2018/9	10	2	To be arranged.
CH5711	Advanced Spectroscopic Methods	2017/8 & 2018/9	10	1	To be arranged.
CH5713	Surface Science and Heterogeneous Catalysis	2017/8 & 2018/9	10	2	To be arranged.
CH5714	Chemical Applications of Electronic Structure Calculations	2017/8 & 2018/9	10	2	To be arranged.
CH5715	Energy Conversion and Storage	2017/8 & 2018/9	10	2	To be arranged.
CH5716	Processing of Materials	2017/8 & 2018/9	10	1	To be arranged.
CH5717	Nanostructured Materials	2017/8 & 2018/9	10	1	To be arranged.
CLASSICAL STUDIES					
CL4413	Logos, Nature, and Psyche: the Origins of Western Thought	2017/8	30	2	11.00 am - 1.00 pm Wed
CL4419	Magic in Greco-Roman Literature and Life	2017/8	30	1	2.00 pm - 4.00 pm Tue
CL4420	Fame, Tradition and Narrative: Homer's Iliad	2017/8	30	2	2.00 pm - 4.00 pm Tue
CL4437	Modern Classics: Classics in the Nineteenth and Twentieth Centuries	2017/8	30	2	2.00 pm - 4.00 pm Fri
CL4449	After Virgil: The Aeneid and its Reception	2017/8	30	1	10.00 am - 12.00 noon Fri
CL4462	Leaders and Leadership in the Ancient World	2017/8	30	1	4.00 pm - 5.00 pm Tue and Thu
CL4601	Art of the Roman Empire	2017/8	30	1	10.00 am - 12.00 noon Tue
CL4603	Greek Painted Pottery	2017/8	30	2	11.00 am - 1.00 pm Tue
CL4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	TBC	To be arranged.
CL4795	Joint Dissertation (60cr)	2017/8 & 2018/9	60	Whole Year	To be arranged.
CL4990	Special Topic in Classical Studies	2017/8 & 2018/9	15	1	To be arranged.
CL4997	Dissertation (Non-Graduating) (30)	2017/8 & 2018/9	30	1 or 2	To be arranged.

Honours Level Module Index- 2017/8 - August 2017

Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
CLASSICAL STUDIES (continued)					
CL4999	Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies	2017/8 & 2018/9	30	1 or 2	To be arranged.
COMPARATIVE LITERATURE					
CO3001	Issues in Comparative Literature	2017/8 & 2018/9	15	1	To be arranged.
CO3002	Found in Translation	2017/8 & 2018/9	15	2	To be arranged.
CO3020	Cultural Memory and Literature	2018/9	15	1	To be arranged.
CO3021	Crossing the Mediterranean	2018/9	15	2	To be arranged.
CO4002	The Literary Canon	2018/9	15	2	To be arranged.
CO4003	Issues in Cultural Studies	2017/8	15	1	To be arranged.
CO4020	Literature and the Bible	2017/8	15	2	To be arranged.
CO4021	Autobiography and the Visual Arts	2017/8	15	2	To be arranged.
CO4022	Illness and Literature	2017/8	15	1	To be arranged.
CO4024	Performing Early-Modern Sexualities	2018/9	15	2	To be arranged.
CO4026	Classicism in European Literature	2017/8	15	1	To be arranged.
CO4027	Folk and Fairy Tales	2018/9	15	1	To be arranged.
CO4028	Great Works and their Adaptations: Proust's Remembrance of Things Past	2017/8	15	2	To be arranged.
CO4029	Science and Culture in European Modernisms	2018/9	15	1	To be arranged.
CO4098	Short Dissertation in Comparative Literature	2017/8 & 2018/9	15	1 or 2	To be arranged.
CO4099	Long Dissertation in Comparative Literature	2017/8 & 2018/9	30	Whole Year	not applicable.
COMPUTER SCIENCE (see also Information Technology)					
CS3052	Computational Complexity	2017/8 & 2018/9	15	2	To be arranged.
CS3099	Software Engineering Team Project	2017/8 & 2018/9	30	Whole Year	To be arranged.
CS3101	Databases	2017/8 & 2018/9	15	1	To be arranged.
CS3102	Data Communications and Networks	2017/8 & 2018/9	15	2	To be arranged.
CS3104	Operating Systems	2017/8 & 2018/9	15	1	To be arranged.
CS3105	Artificial Intelligence	2017/8 & 2018/9	15	2	To be arranged.
CS3106	Human Computer Interaction	2017/8 & 2018/9	15	1	To be arranged.
CS3301	Component Technology	2017/8 & 2018/9	15	2	To be arranged.
CS3302	Data Encoding	2017/8 & 2018/9	15	1	To be arranged.
CS4052	Logic and Software Verification	2017/8 & 2018/9	15	1	To be arranged.
CS4098	Minor Software Project	2017/8 & 2018/9	15	Whole Year	To be arranged.
CS4099	Major Software Project	2017/8 & 2018/9	30	Whole Year	To be arranged.
CS4102	Computer Graphics	2017/8 & 2018/9	15	2	To be arranged.
CS4103	Distributed Systems	2017/8 & 2018/9	15	2	To be arranged.
CS4201	Programming Language Design and Implementation	2017/8 & 2018/9	15	1	To be arranged.
CS4202	Computer Architecture	2017/8 & 2018/9	15	1	To be arranged.
CS4203	Computer Security	2017/8 & 2018/9	15	1	To be arranged.
CS4204	Concurrency and Multi-Core Architectures	2017/8 & 2018/9	15	2	To be arranged.
CS4302	Signal Processing and Perception for Digital Media	2017/8 & 2018/9	15	1	To be arranged.
CS4303	Video Games	2017/8 & 2018/9	15	1	To be arranged.
CS4402	Constraint Programming	2017/8 & 2018/9	15	2	To be arranged.
CS4499	Computer Science (Special Subject)	2017/8 & 2018/9	15	1 or 2	To be arranged.
CS4796	Joint Project (30cr)	2017/8 & 2018/9	30	Whole Year	To be arranged.
CS5010	Artificial Intelligence Principles	2017/8 & 2018/9	15	1	To be arranged.
CS5011	Artificial Intelligence Practice	2017/8 & 2018/9	15	1	To be arranged.
CS5012	Language and Computation	2017/8 & 2018/9	15	2	To be arranged.
CS5020	Principles of Computer Communication Systems	2017/8	15	1	To be arranged.
CS5022	Practice in Computer Communication Systems	2017/8	15	1	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
COMPUTER SCIENCE (continued)					
CS5024	Advanced Topics in Computer Communication Systems	2017/8 & 2018/9	15	2	To be arranged.
CS5030	Software Engineering Principles	2017/8 & 2018/9	15	1	To be arranged.
CS5031	Software Engineering Practice	2017/8 & 2018/9	15	2	To be arranged.
CS5032	Critical Systems Engineering	2017/8 & 2018/9	15	1	To be arranged.
CS5033	Software Architecture	2017/8 & 2018/9	15	2	To be arranged.
CS5040	Human Computer Interaction Principles and Methods	2017/8 & 2018/9	15	1	To be arranged.
CS5041	Interactive Software and Hardware	2017/8 & 2018/9	15	1	To be arranged.
CS5042	User-Centred Interaction Design	2017/8 & 2018/9	15	2	To be arranged.
CS5044	Information Visualisation and Visual Analytics	2017/8 & 2018/9	15	2	To be arranged.
CS5052	Data-Intensive Systems	2017/8 & 2018/9	15	2	To be arranged.
CS5199	Individual Masters Project	2017/8 & 2018/9	60	1 & 2 (taught twice)	Full-time for one semester.
DIVINITY					
DI3703	Reading in Reformation and Early Modern Theology	2017/8 & 2018/9	15	1	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 1-5 essay submitted in week 6)
DI3704	Reading in Theological Ethics	2017/8 & 2018/9	15	1	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 7 - 11 essay submitted in week 12)
DI3711	Reading in the Old Testament / Hebrew Bible	2017/8 & 2018/9	15	1	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 11.00 am - 1.00 pm Fri (Classes held in Weeks 1 - 5 essay submitted Week 6)
DI3712	Reading in the New Testament	2017/8 & 2018/9	15	1	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 11.00 am - 1.00 pm Fri (Classes held in Weeks 7 - 11 essay submitted Week 12)
DI3716	Reading in the Greek New Testament	2017/8	30	1	9.00 am - 11.00 am Mon and Thu
DI4015	Communication in Divinity	2017/8	15	1	To be arranged.
DI4498	Honours Dissertation in Divinity	2017/8 & 2018/9	30	1 & 2 (taught twice)	11.00 am - 1.00 pm Wed
DI4510	Modern Ecclesiology: from Age to Age	2017/8	30	2	3.00 pm - 5.00 pm Mon and Tue
DI4525	Mediaeval Monastic Spirituality	2017/8	30	1	11.00 am - 12.00 noon Mon and 2.00 pm - 4.00 pm Thu
DI4550	Baylor University Module	2017/8	15	1	To be arranged.
DI4551	Baylor University Module	2017/8	15	2	To be arranged.
DI4608	Gospel of Matthew (English Texts)	2017/8	30	2	10.00 am - 1.00 pm Tue
DI4615	New Testament Special Topic	2017/8	30	1 & 2 (taught twice)	To be arranged.
DI4616	Atonement	2017/8	30	2	2.00 pm - 5.00 pm Mon
DI4705	Biblical Aramaic	2017/8	30	1	Lecture: 12.00 noon - 1.00 pm Tue, Seminar: 2.00 pm - 4.00 pm Fri
DI4726	Hebrew Readings	2017/8	30	2	To be arranged.
DI4732	King and Messiah in the Hebrew Bible/Old Testament and Second Temple Judaism	2017/8	30	1	Lecture: 12.00 noon - 1.00 pm Fri, Seminar: 11.00 am - 1.00 pm Mon
DI4733	Creation and Chaos in the Hebrew Bible and the Ancient Near East	2018/9	30	1	To be arranged.
DI4750	Themes and Texts in Christian-Buddhist Dialogue	2017/8	30	2	11.00 am - 2.00 pm Wed.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
DIVINITY (continued)					
DI4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	TBC	To be arranged.
DI4825	Theology in Africa	2017/8	30	1	11.00 am - 2.00 pm Tue.
DI4829	A Quest for God: The Religious World of Dante	2017/8	30	1	Lecture: 10.00 am - 11.00 am, Seminar: 10.00 am - 12.00 noon Wed
DI4924	Theology and Imagination	2017/8	30	2	2.00 pm - 5.00 pm Thu
DI4940	Analytic Theology	2017/8	30	2	11.00 am - 2.00 pm Tue
DI4941	Theology of the Reformation	2017/8	30	1	Lecture: 10.00 am - 11.00 am Tue, Seminar: 11.00 am - 1.00 pm Fri.
EARTH AND ENVIRONMENTAL SCIENCES					
ES3001	Geological Mapping	2017/8 & 2018/9	15	1	To be arranged.
ES3002	Analytical and Statistical Methods in Earth Sciences	2017/8 & 2018/9	15	1	11.00 am - 1.00 pm Mon (analytical methods), 2.00 pm - 4.00 pm Thu (stats)
ES3003	GIS and Spatial Analysis for Earth Scientists	2017/8 & 2018/9	15	2	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session) (Weeks 1 - 7)
ES3004	Processes and Products in Sedimentary Systems	2017/8 & 2018/9	15	2	9.00 am - 10.00 am Tue - Thu (lectures), 2.00 - 5.00 pm Mon (practicals). 3 field days (9.00 am - 5.00 pm)
ES3006	Advanced Geological Mapping	2017/8 & 2018/9	15	2	9.00 am - 5.00 pm Fri (map practicals)
ES3007	Structural Geology and Tectonics	2017/8 & 2018/9	15	2	10.00 am - 12.00 noon Thu (lectures), 2.00 - 5.00 pm (practicals)
ES3008	Geochemistry	2017/8 & 2018/9	15	1	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)
ES3009	Igneous and Metamorphic Petrology	2017/8 & 2018/9	15	1	9.00 am Tue and Thu (lectures); 2.00 pm - 5.00 pm Mon (practicals)
ES3010	Advanced Environmental Field Methods	2017/8 & 2018/9	15	2	9.00 am - 5.00 pm Fri (Weeks 1 - 4)
ES3011	Global Biogeochemical Cycles	2017/8 & 2018/9	15	2	To be arranged.
ES3012	Advanced Geological and Environmental Field Methods	2017/8 & 2018/9	15	2	To be arranged.
ES3099	Field Methods in Geosciences	2017/8 & 2018/9	30	2	none - field-based module.
ES4001	Field Excursion and Map Interpretation	2017/8 & 2018/9	15	1	12 days fieldwork in August - September. 9.00 am - 5.00 pm Fri (practicals)
ES4002	Research Review, Essay and Seminar	2017/8 & 2018/9	15	1	Not applicable.
ES4003	Research Dissertation	2017/8 & 2018/9	45	Whole Year	Not applicable.
ES4007	Petroleum Exploration and Geophysics	2017/8 & 2018/9	15	1	11.00 am - 1.00 pm Thu (lectures), 2.00 - 5.00 pm Thu (practicals)
ES4008	Environmental Excursion	2017/8 & 2018/9	15	1	6 days fieldwork preceding Senior Honours. 9.00 am - 5.00 pm Fri (practicals)
ES4010	Joint Honours Research Project	2017/8 & 2018/9	30	Whole Year	Not applicable.
ES4011	Work Placement in Earth Sciences	2017/8 & 2018/9	30	1 or 2	To be arranged.
ES4012	Research Placement in Earth Sciences	2017/8 & 2018/9	30	1 or 2	To be arranged.
ES4031	Analytical Sciences	2017/8 & 2018/9	5	1	To be arranged.
ES4801	Geology Field Camp in Scotland	2017/8 & 2018/9	24	Summer	Full time for 5 weeks
ES5001	Expedition Field Course	2017/8 & 2018/9	15	Summer	To be arranged.
ES5003	Research Dissertation	2017/8 & 2018/9	60	Whole Year	To be arranged.
ES5005	Isotope Geochemistry: Theory, Techniques, and Applications	2017/8 & 2018/9	15	1	To be arranged.
ES5009	Geodynamics	2017/8 & 2018/9	15	2	9.00 am - 10.00 am Tue and Wed; 9.00 am - 5.00 pm Fri (Weeks 2,5,9)
ES5010	Advanced Geochemistry	2017/8 & 2018/9	15	2	To be arranged.
ES5011	Water in the Environment	2017/8 & 2018/9	15	1	To be arranged.
ES5013	Advanced Petrogenesis	2017/8	15	1	10.00 am Mon and Tue (lectures). 10.00 - 1.00 pm Wed or Fri (practicals)
ES5050	Earth's Greatest Hits	2017/8 & 2018/9	15	2	Lectures: 11.00 am - 12.00 noon Thu, Seminars: 10.00 am - 1.00 pm Wed
ES5300	Magmatic-related Ore Deposits	2017/8 & 2018/9	15	1	To be arranged.
ES5301	Mineral Exploration	2017/8	15	1	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
EARTH AND ENVIRONMENTAL SCIENCES (continued)					
ES5302	Hydrothermal Ore Deposits	2017/8	15	2	To be arranged.
ES5303	Applied Geological Mapping	2017/8	15	1	To be arranged
ES5304	3D Geological Modelling	2017/8	15	2	To be arranged.
ECONOMICS AND FINANCE					
EC3301	Econometrics	2017/8 & 2018/9	20	1	To be arranged.
EC3302	Decision and Game Theory	2017/8 & 2018/9	20	1	To be arranged.
EC3303	Economic Growth	2017/8 & 2018/9	20	1	To be arranged.
EC3304	Mathematical Economics	2017/8 & 2018/9	20	1	To be arranged.
EC3305	Incentives, Contract and Markets	2017/8 & 2018/9	20	2	To be arranged.
EC3306	Economic Fluctuations	2017/8 & 2018/9	20	2	To be arranged.
EC4401	Advanced Econometrics	2017/8 & 2018/9	20	2	To be arranged.
EC4402	Economic History	2017/8 & 2018/9	20	1	To be arranged.
EC4403	Health and Education	2017/8 & 2018/9	20	2	To be arranged.
EC4405	Economics of the Environment	2017/8 & 2018/9	20	1	To be arranged.
EC4406	Experimental Economics	2017/8	20	2	To be arranged.
EC4407	Behavioural Economics	2017/8 & 2018/9	20	2	To be arranged.
EC4408	Industrial Organisation and Regulations	2018/9	20	2	To be arranged.
EC4409	International Macroeconomics	2017/8 & 2018/9	20	1	To be arranged.
EC4410	International Trade	2017/8 & 2018/9	20	2	To be arranged.
EC4411	Economics of Labour	2018/9	20	2	To be arranged.
EC4413	European Macroeconomics	2017/8 & 2018/9	20	2	To be arranged.
EC4414	Macroeconomic Policy	2017/8 & 2018/9	20	2	To be arranged.
EC4415	Public Economics	2018/9	20	1	To be arranged.
EC4416	Innovation Economics	2017/8	20	2	To be arranged.
EC4417	Financial Economics: Asset Pricing	2017/8 & 2018/9	20	1	To be arranged.
EC4418	Financial Economics: Corporate Finance	2017/8 & 2018/9	20	2	To be arranged.
EC4419	Economics of Development	2017/8 & 2018/9	20	1	To be arranged.
EC4420	Inequality and Redistribution	2017/8 & 2018/9	20	1	To be arranged.
EC4421	Political Economy	2017/8 & 2018/9	20	1	To be arranged.
EC4424	The Economics of Migration	2017/8 & 2018/9	20	2	To be arranged.
EC4425	Econometrics of Impact Evaluation	2017/8	20	2	To be arranged.
EC4430	Portfolio Management	2017/8 & 2018/9	20	1	To be arranged.
EC4498	Research Project in Economics	2017/8 & 2018/9	20	1	To be arranged.
EC4499	Dissertation in Economics	2017/8 & 2018/9	40	Whole Year	None, but attendance at the departmental research colloquia required.
EC5201	Macroeconomics	2017/8 & 2018/9	20	1	To be arranged.
EC5202	Microeconomics	2017/8 & 2018/9	20	1	To be arranged.
EC5203	Econometric Methods and Applications	2017/8 & 2018/9	20	1	To be arranged.
ENGLISH					
EN3111	Beowulf	2017/8	30	1	10.00 am and 11.00 am Fri
EN3112	Chaucer's Canterbury Tales	2017/8	30	2	11.00 am - 1.00 pm Wed
EN3113	Older Scots Literature to 1560	2017/8	30	1	10.00 am Tue and 11.00 am Thu
EN3141	Tragedy in the Age of Shakespeare	2017/8	30	1 & 2 (taught twice)	S1 - 12.00 noon Tue and 12.00 noon Thu, S2 - 3.00 pm - 4.00 pm Thu, 4.00 pm - 5.00 pm Fri
EN3142	Renaissance Literature: Texts and Contexts	2017/8	30	2	12.00 noon Tue and 2.00 pm Thu
EN3161	The Development of the Novel to 1840	2017/8	30	1	11.00 am Tue and 12.00 noon Thu
EN3162	Revolution and Romanticism: Literature, History and Society (1789-1805)	2017/8	30	1	11.00 am Tue and 10.00 am Thu
EN3163	The Younger Romantics: Poetry and Prose (1810 - 1830)	2017/8	30	2	11.00 am Thu and 11.00 am Fri
EN3165	'Loose Baggy Monsters': The Rise and Fall of the Victorian Novel	2017/8	30	1	9.00 am - 11.00 am Wed
EN3166	Victorian Poetry's Voices	2017/8	30	2	9.00 am - 11.00 am Tue
EN3201	Literary Theory	2017/8	30	1	11.00 am - 1.00 pm Fri
EN3202	Literature and Ecology	2017/8	30	2	11.00 am Thu and 11.00 am Fri
EN3207	Twentieth-Century British and Irish Drama	2017/8	30	1	12.00 noon Mon and 12.00 noon Wed

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ENGLISH (continued)					
EN3212	Modernist Literature: Making It New?	2017/8	30	1	3.00 pm - 5.00 pm Thu
EN3213	Postcolonial Literature and Theory	2017/8	30	1	1.00 pm Tue and 1.00 pm Thu
EN3214	The Country and the City in Scottish Literature	2017/8	30	2	12.00 noon - 2.00 pm Mon
EN3215	Atomic Cultures: Anglophone Writing and the Global Cold War	2017/8	30	1	11.00 am Tue and 11.00 am Thu
EN3216	Modern Experimental Poetry	2017/8	30	2	3.00 pm - 5.00 pm Thu
EN3217	Writing Poetry	2017/8	30	2	9.00 am - 11.00 am Wed
EN4315	Apocalyptic Literature in Early English	2017/8	30	1	9.00 am and 10.00 am Thu
EN4342	Restoration Drama in Context	2017/8	30	1	11.00 am - 1.00 pm Mon
EN4345	Hard Cases: Literary Complexity from Donne to Pope	2017/8	30	2	2.00 pm - 4.00 pm Mon
EN4346	The Early Tudors: Literature and Reformation	2017/8	30	2	10.00 am Tue and Thu
EN4348	Bodies and Selves in the Renaissance	2017/8	30	1	12.00 noon - 2.00 pm Thu
EN4361	The Novels of Jane Austen in Context	2017/8	30	1	10.00 am - 12.00 noon Mon
EN4365	Literature and Childhood in the Eighteenth Century	2017/8	30	1	9.00 am - 11.00 am Wed
EN4367	Romantic Gothic	2017/8	30	2	10.00 am Mon and 11.00 am Mon
EN4398	Short Dissertation	2017/8	15	1	9.00 am Tue
EN4399	Dissertation in English	2017/8 & 2018/9	30	1	9.00 am Tue
EN4402	Speeches and Speechwriting: History, Theory and Practice	2017/8	30	1	3.00 pm Tue and 2.00 pm Fri
EN4403	Mediaevalism	2017/8	30	2	3.00 pm and 4.00 pm Tue
EN4405	Contemporary Poetry in Great Britain and Ireland	2017/8	30	2	3.00 pm - 5.00 pm Tue
EN4406	Contemporary British Fiction	2017/8	30	2	11.00 am - 12.00 noon Mon and Thu
EN4415	T.S. Eliot	2017/8	30	2	11.00 am - 1.00 pm Wed
EN4417	Writing Poetry and Prose	2017/8	30	1	3.00 pm - 5.00 pm Thu
EN4418	American Poetry since 1950	2017/8	30	2	11.00 am - 1.00 pm Mon
EN4419	American Fiction: Self and Nation (1865 - 1939)	2017/8	30	2	2.00 pm - 4.00 pm Fri
EN4420	Writing Prose	2017/8	30	2	10.00 am Wed and 11.00 am Wed
EN4422	Poetic Language	2017/8	30	2	11.00 am - 1.00 pm Tue, 12.00 noon Thu
EN4423	Material Culture in Victorian and Modernist Fiction	2017/8	30	2	2.00 pm - 4.00 pm Fri
EN4424	Nationalists and Nomads: Contemporary World Literature	2017/8	30	2	2.00 pm - 4.00 pm Thu
EN4425	Celtic Modernisms	2017/8	30	1	10.00 am - 12.00 noon Tue
EN4426	Civil Wars on Page and Screen	2017/8	30	2	2.00 pm - 4.00 pm Mon, plus film viewing 2.00 pm - 5.00 pm Fri
EN4430	Making Performance	2017/8	30	2	10.00 am - 12.00 noon Fri
EN4432	Poetry and Cinema	2017/8	30	1	2.00 pm - 4.00 pm Tue, and film viewing 2.00 pm - 4.00 pm Fri (some weeks)
EN4500	Playwriting	2017/8	30	1	11.00 am Wed and 12.00 noon Wed
EN4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	1	9.00 am Tue
ENVIRONMENTAL GEOGRAPHY (see also Geography)					
EG3020	Global Climate Change	2017/8 & 2018/9	15	1	9.00 am - 10.00 am Wed and Thu, 2.00 pm - 5.00 pm Tue
EG3031	Special Topic for Physical Geography	2017/8 & 2018/9	5	1	To be arranged.
EG3032	Special Environmental Topic for Physical Geography	2017/8 & 2018/9	5	1	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
FILM STUDIES					
FM4099	Film Studies Dissertation	2017/8 & 2018/9	30	1 or 2	To be arranged.
FM4102	Film and Politics	2017/8	30	1	12.00 noon - 2.00 pm Tue (Screenings: 4.30 pm to 8.00 pm Thu)
FM4108	Cinema and Media in the Digital Age	2017/8	30	1	12.00 noon - 2.00 pm Mon (Screenings: 7.00 pm - 9.30 pm Mon)
FM4109	Film and the Archive	2017/8	30	2	10.00 am - 12.00 noon Mon (Screenings: 4.30 pm - 7.00 pm Mon)
FM4114	Film Genres	2018/9	30	1	To be arranged.
FM4115	Sensory Cinema	2017/8	30	1	10.00 am - 12.00 noon Mon (Screenings: 4.30 pm - 7.00 pm Tue)
FM4116	Stars	2017/8	30	2	2.00 pm - 4.00 pm Tue (Screenings: 4.30 pm - 8.00 pm Tue)
FM4120	Silent Cinema	2017/8	30	2	10.00 am - 12.00 noon Tue (Screenings: 4.30 pm - 8.00 pm Thu)
FM4204	Asian Cinemas	2017/8	30	2	2.00 pm - 4.00 pm Mon (Screening 4.30 pm - 7.00 pm Tue)
FM4208	City in Asian Cinema	2017/8	30	1	To be arranged.
FM4303	Documentary Cinema	2017/8	30	2	12.00 noon - 2.00 pm Tue (Screenings: 4.30 pm - 7.00 pm Mon)
FM4306	Feminist Film Studies	2017/8	30	1	2.00 pm - 4.00 pm Tue (Screenings: 7.00 pm - 9.30 pm Mon)
FM4308	Film Sound	2018/9	30	1 or 2	To be arranged.
FM4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	1 or 2	To be arranged.
FM4796	Joint Project (30cr)	2017/8 & 2018/9	30	1 or 2	To be arranged.
FRENCH					
FR3001	French Language 1	2017/8 & 2018/9	15	1	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon
FR3002	French Language 2	2017/8 & 2018/9	15	2	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon
FR3028	Plays, Players and Playwrights (1620 - 1680) 1	2017/8	15	1	To be arranged.
FR3059	From One War to Another: French Politics, Culture and Society 1914 - 1945 (1)	2017/8	15	1	To be arranged.
FR3077	Contemporary French Fiction	2017/8	15	2	To be arranged.
FR3101	French Integrated Year Abroad	2017/8 & 2018/9	60	Whole Year	Please Contact Department
FR4103	Translation Methodology 1	2017/8	15	1	To be arranged.
FR4104	Translation Methodology 2	2017/8	15	2	To be arranged.
FR4105	Communication Skills in French 1	2017/8 & 2018/9	15	1	To be arranged.
FR4106	Communication Skills in French 2	2017/8 & 2018/9	15	2	To be arranged.
FR4116	Mediaeval Marvels: The Exotic, the East and the Other in Mediaeval French Literature	2017/8	15	1	To be arranged.
FR4123	Libertine Literature and Libertinage in Eighteenth-Century France	2017/8	15	1	To be arranged.
FR4126	Flaubert's France	2017/8	15	2	To be arranged.
FR4127	Nineteenth-Century French Narratives of the Sea	2017/8	15	1	To be arranged.
FR4128	A semester with Casanova: myths and afterlives of Histoire de ma vie	2017/8	15	2	To be arranged.
FR4150	Creative Writing in French	2017/8	15	2	To be arranged.
FR4161	Antillean Identities	2017/8	15	1	Mon and Wed - time TBC
FR4176	Recent Women's Writing in French: Theory and Practice	2017/8	15	1	To be arranged.
FR4180	Modern French Thought	2017/8	15	1	To be arranged.
FR4181	Contemporary French Crime Fiction	2017/8	15	2	To be arranged.
FR4182	Goods and Ads: Consumerism in Modern France	2017/8	15	2	To be arranged.
FR4183	African Francophone Fiction	2017/8	15	2	To be arranged.

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FRENCH (continued)					
FR4198	Dissertation on a French Topic	2017/8 & 2018/9	15	1 or 2	Please Contact Department
FR4199	Long Dissertation on a French Topic	2017/8 & 2018/9	30	Whole Year	Please Contact Department
FR5810	French Science Project Dissertation	2017/8	30	Whole Year	To be arranged.
GEOGRAPHY					
GG3100	Reconstructing Past Environments	2017/8 & 2018/9	20	1	11.00 am - 1.00 pm Wed
GG3201	Single Honours Research Design and Methodology Training (60)	2017/8	60	2	To be arranged.
GG3202	Joint Honours Research Design and Methodology Training (30)	2017/8	30	2	To be arranged.
GG3203	Research Design and Methodology Training (50)	2017/8 & 2018/9	50	2	To be arranged.
GG3204	Research Design and Methodology Training (40)	2017/8 & 2018/9	40	2	To be arranged.
GG3221	Geographies of Identity and Power	2017/8	20	1	2.00 pm - 4.00 pm Fri
GG3224	HIV/AIDS in sub-Saharan Africa	2017/8	20	1	9.00 am - 11.00 am Wed
GG3227	Colonial and Postcolonial Geographies	2018/9	20	1	9.00 am - 11.00 am Mon
GG3229	Environmental Management in Scotland	2018/9	20	1	9.00 am - 11.00 am Tue
GG3232	Housing, Community and Social-Spatial Justice	2018/9	20	1	11.00 am - 1.00 pm Tue
GG3234	Migration and Transnationalism	2018/9	20	1	2.00 pm - 4.00 pm Fri
GG3237	Political and Cultural Geographies of the Border	2017/8	20	1	11.00 am - 1.00 pm Tue
GG3238	Development: voice, power and identity in global times	2018/9	20	1	11.00 am - 1.00 pm Mon
GG3239	European Population Trends	2017/8	20	1	10.00 am - 1.00 pm Mon
GG3240	Ice and climate	2017/8	20	1	9.00 am - 11.00 am Mon
GG3241	Quaternary Palaeoecology	2017/8	20	1	11.00 am - 1.00 pm Tue
GG3262	Climate and Weather Systems	2018/9	20	1	11.00 am - 1.00 pm Tue
GG3263	Glaciers and Glaciation	2018/9	20	1	9.00 am - 11.00 am Wed
GG3264	Oceans and Climate	2018/9	20	1	9.00 am - 11.00 am Thu
GG3271	Coastal Processes	2017/8	20	1	11.00 am - 1.00 pm Tue
GG3272	Biogeography	2018/9	20	1	11.00 am - 1.00 pm Mon
GG3273	Scrutinising Segregation: Geographies of Diversity and Inequality	2018/9	20	1	11.00 am - 1.00 pm Wed
GG3274	Socio-ecological Systems	2017/8	20	1	9.00 am - 11.00 am Tue
GG3301	Special Topic for Joint or Major Honours in Geography (Junior Honours)	2017/8 & 2018/9	10	1	To be arranged.
GG3302	Special Topic for Honours in Geography (Senior Honours)	2017/8 & 2018/9	10	1	To be arranged.
GG4201	Advanced Debates in Geography	2017/8 & 2018/9	10	2	To be arranged.
GG4297	Joint Honours Research Dissertation in Geography	2017/8 & 2018/9	30	2	To be arranged.
GG4298	Research Dissertation in Geography	2017/8 & 2018/9	50	2	To be arranged.
GG4301	Advanced Study for Joint or Major Honours in Geography	2017/8 & 2018/9	10	1	To be arranged.
GERMAN					
GM3005	German Language 1	2017/8 & 2018/9	15	1	11.00 am Tue and Fri
GM3006	German Language 2	2017/8 & 2018/9	15	2	11.00 am or 1.00 pm Tue and Fri
GM3075	Thomas Mann - Doktor Faustus	2017/8	15	1	To be arranged.
GM3081	Words and their Functions in Modern German	2017/8	15	2	2.00 pm Tue and Thu
GM3101	German Integrated Year Abroad	2017/8 & 2018/9	60	Whole Year	Please Contact Department
GM4048	Art and the Artist in Modern German Culture	2018/9	15	1	To be arranged.
GM4049	Language and Ideology in the GDR and West Germany from 1949 - 1989	2017/8	15	1	To be arranged.
GM4071	Shakespeare: The German Catalyst	2017/8	15	2	12.00 noon Mon and 11.00 am Wed.
GM4073	Women in German Letters	2017/8	15	1	To be arranged.
GM4075	Berlin: Modernity and the Metropolis	2017/8	15	2	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
GERMAN (continued)					
GM4084	German Monsters	2017/8	15	2	To be arranged.
GM4092	East German Cinema	2017/8	15	1	To be arranged.
GM4098	Dissertation on German Topic	2017/8 & 2018/9	15	1 or 2	Please Contact Department
GM4099	Long Dissertation on a German Topic	2017/8 & 2018/9	30	Whole Year	Please Contact Department
GM4105	German Language 3	2017/8 & 2018/9	15	1	11.00 am or 3.00 pm Mon and 11.00 am or 3.00 pm Thu
GM4106	German Language 4	2017/8 & 2018/9	15	2	11.00 am or 3.00 pm Mon; 11.00 am or 3.00 pm Thu
GREEK					
GK3021	Greek for Honours Classics 1: Special Option	2017/8 & 2018/9	30	1	10.00 am - 11.00 am 4 days a week (Tue - Fri)
GK3022	Greek for Honours Classics 2: Special Option	2017/8 & 2018/9	30	2	10.00 am - 11.00 am 4 days a week (Tue - Fri)
GK4100	Greek Prose Composition	2017/8	30	2	12.00 noon - 1.00 pm Tue and Fri
GK4102	Greek Tragedy	2017/8	30	1	3.00 pm - 4.00 pm Tue and Thu
GK4116	Greeks on Education	2017/8	30	2	3.00 pm - 4.00 pm Tue and Thu
GK4124	The History of Ancient Greek from Homer to the New Testament	2017/8	30	1	1.00 pm - 2.00 pm Tue and Thu
GK4998	Dissertation in Greek (Long)	2017/8 & 2018/9	60	Either, or whole year	To be arranged.
GK4999	Dissertation in Greek	2017/8 & 2018/9	30	1 or 2	To be arranged.
HISTORY (see also Mediaeval History, Middle Eastern History, Modern History, Scottish History)					
HI4101	Communication in History	2017/8 & 2018/9	15	1	To be arranged.
HI4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	TBC	To be arranged.
HI4997	Recording the Past	2017/8 & 2018/9	30	1 or 2	To be arranged.
HI4998	Honours Project in History	2017/8 & 2018/9	30	1 or 2	To be arranged.
HI4999	Honours Dissertation in History	2017/8 & 2018/9	30	Whole Year	To be arranged.
INTERDISCIPLINARY MODULES					
ID4001	Communication and Teaching in Science	2017/8 & 2018/9	15	1	Flexible
ID4002	Communication and Teaching in Arts and Humanities	2017/8 & 2018/9	15	1	To be arranged.
ID4441	Combined Chemistry and Geology Research Project	2018/9	50	Whole Year	2 days per week.
ID4442	Combined Research Project in Biology and Geology	2017/8 & 2018/9	45	Whole Year	To be arranged.
ID5059	Knowledge Discovery and Datamining	2017/8 & 2018/9	15	2	11.00 am Mon (odd weeks), Wed and Fri
INTERNATIONAL RELATIONS					
IR3004	International Political Economy	2017/8	30	2	11.00 am Fri
IR3006	International Regimes and Organisations	2017/8	30	1	9.00 am Tue
IR3008	International Terrorism	2017/8	30	1	12.00 noon Thu
IR3011	Ethics and World Politics	2017/8	30	2	1.00 pm Fri
IR3021	Case Studies in Conflict Analysis	2017/8	30	1	12.00 noon Thu
IR3022	International Relations and International Law	2017/8	30	1	11.00 am Wed
IR3023	US Foreign Policy: The Dilemmas of Empire	2017/8	30	2	11.00 am Mon
IR3024	The Politics of Africa	2017/8	30	1	10.00 am Mon
IR3029	The Logic of Irregular Warfare	2017/8	30	1	11.00 am Mon
IR3030	Human Rights in Theory and Practice	2017/8	30	1	10.00 am Thu
IR3031	Globalisation and the War on Terrorism	2017/8	30	1	11.00 am Tue
IR3032	Globalisation and its Disjunctures	2017/8	30	2	10.00 am Thu
IR3033	Post-Conflict Transition in Sub-Saharan Africa	2017/8	30	1	11.00 am Thu
IR3042	Representations of Violent Conflict: Research Seminar	2017/8	30	2	10.00 am - 12.00 noon Tue, or 10.00 am - 12.00 noon Wed
IR3045	Violence in Deeply-Divided Societies	2017/8	30	1	10.00 am Wed
IR3046	Foreign Policy of Modern China	2017/8	30	1	12.00 noon Mon

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
INTERNATIONAL RELATIONS (continued)					
IR3048	Peacekeeping and Humanitarian Intervention	2017/8	30	1	10.00 am - 12.00 noon Tue or 1.00 pm - 3.00 pm Tue
IR3049	International History and International Relations	2017/8	30	2	10.00 am Tue
IR3050	State, Power, Crime	2017/8	30	1	10.00 am Tue
IR3051	International Relations Theory	2017/8	30	2	10.00 am - 12.00 noon Thu and 1.00 pm - 3.00 pm Thu
IR3053	Peacebuilding and Post-Conflict Transition in Latin America	2017/8	30	2	11.00 am Tue
IR3054	Mapping the Boundaries of Emerging and Evolving Securities	2017/8	30	1	12.00 noon Mon
IR3055	International Relations and the Internet	2017/8	30	2	2.00 pm Thu
IR3057	Armaments and International Relations	2017/8	30	1	1.00 pm - 2.00 pm Thu
IR3058	Armed Forces, Societies and Governments: An International Perspective on Civil-Military Relations	2017/8	30	2	11.00 am - 12.00 noon Thu
IR3060	Rebellion and Revolution	2017/8	30	2	1.00 pm Thu
IR3064	Critical Terrorism Studies	2017/8	30	2	9.00 am - 11.00 am Mon or Tue
IR3065	Refugees and International Relations	2017/8	30	1	1.00 pm Mon
IR3066	Emotional Encounters: Diplomacy, Power and Persuasion in World Politics	2017/8	30	1	3.00 pm Thu
IR3067	The International Criminal Court in World Politics	2017/8	30	1	4.00 pm Tue
IR3068	Christianity and World Politics	2017/8	30	2	To be arranged.
IR3070	Armed Conflict in Postcolonial Africa	2017/8	30	2	12.00 noon Wed
IR3071	Realism in International Relations	2017/8	30	2	2.00 pm Mon
IR3072	New and emerging security threats in the Caucasus and Central Asia	2018/9	30	TBC	TBC - Thu and Fri
IR3073	Dilemmas of International Order: Governing Conflict and Human Rights	2017/8	30	2	3.00 pm Wed
IR3104	The International Relations of Post-Communist Central and Eastern Europe	2017/8	30	1	9.00 am - 10.00 am Tue
IR3111	Asian Security	2017/8	30	2	4.00 pm Tue
IR3113	Gender and Generation	2017/8	30	1	2.00 pm Fri
IR3300	Conflict in the Middle East	2017/8	30	1	10.00 am Mon
IR3301	Politics and State Formation in the Middle East	2017/8	30	1	11.00 am Tue
IR3302	Democracy and Revolution in North Africa	2017/8	30	2	11.00 am Tue
IR3303	The Arab - Israeli Conflict	2017/8	30	2	11.00 am or 12.00 noon Tue
IR4099	Honours Dissertation in International Relations	2017/8 & 2018/9	60	Whole Year	11.00 am - 1.00 pm Fri
IR4401	Communication in International Relations	2017/8	15	1	not applicable
IR4516	The International Relations of Sub-Saharan Africa	2017/8	30	1	10.00 am Tue
IR4530	Genocide	2017/8	30	1	3.00 pm Mon
IR4535	Theories of Friendship, Solidarity and Peace	2017/8	30	2	2.00 pm Thu
IR4540	The Changing Character of War	2017/8	30	1	2.00 pm Mon
IR4542	Gender and Terrorism	2017/8	30	2	2.00 - 4.00 pm Mon or 10.00 - 12.00 noon Tue
IR4543	Activism and Resistance	2017/8	30	1	2.00 pm Thu
IR4545	Indian Foreign Policy	2017/8	30	2	12.00 noon Mon
IR4548	Force and Statecraft	2017/8	30	1	1.00 pm Thu
IR4552	The Politics of the Environment	2017/8	30	1	10.00 am Thu
IR4553	Europe, America and the Transatlantic	2017/8	30	2	4.00 pm Tue
IR4554	Global Aesthetics and Politics	2017/8	30	2	9.00 am Wed

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
INTERNATIONAL RELATIONS (continued)					
IR4555	Music, Politics and International Relations	2017/8	30	1	12.00 noon - 2.00 pm Mon
IR4559	Dilemmas of International Governance: Conflict and Human Rights	2017/8	30	2	3.00 pm Tue
IR4560	Faith, Politics, and War: The Augustinian Tradition in IR	2017/8	30	1	To be arranged.
IR4561	Security as Ethics: Rethinking the Global Polity	2017/8	30	2	2.00 pm Tue
IR4562	The Political Lives of Objects	2017/8	30	2	10.00 am Wed
IR4563	Rebels, Terrorists, Militias: The Comparative Analysis of Armed Groups	2017/8	30	1	12.00 noon Wed
IR4564	Strategic Studies	2017/8	30	2	10.00 am Fri
IR4565	Contemporary Political Theory: from revolution to recognition	2017/8	30	1	10.00 am - 12.00 noon Tue or Wed
IR4566	Comparative regionalism	2017/8	30	2	12.00 pm Tue
IR4567	The International Criminal Court in World Politics	2017/8	30	1	4.00 pm Tue
IR4568	International Relations of Energy and the Environment	2018/9	30	2	11.00 am Wed
IR4569	Geopolitics of Energy in the Caspian Region	2017/8	30	2	11.00 am Wed
IR4570	Everyday Life and Global Politics	2017/8	30	2	To be arranged.
IR4600	Ideologies and Social Movements in the Middle East	2017/8	30	1	12.00 noon Tue
IR4601	Political Order and Violence in the Middle East	2017/8	30	2	11.00 am Tue
IR4602	International Relations of the Middle East	2017/8	30	2	2.00 pm Tue
IR4606	Propaganda, Persuasion and Information War in the Middle East	2017/8	30	1	2.00 pm Fri
ITALIAN					
IT3001	Italian Language 1	2017/8 & 2018/9	15	1	To be arranged.
IT3002	Italian Language 2	2017/8 & 2018/9	15	2	To be arranged.
IT3035	Italian Detective Fiction	2017/8	15	2	To be arranged.
IT3038	Primo Levi	2017/8	15	1	To be arranged.
IT3039	Emigrant Nation	2017/8	15	2	To be arranged.
IT3101	Italian Integrated Year Abroad	2017/8 & 2018/9	60	Whole Year	To be arranged.
IT4003	Communication Skills 1	2017/8 & 2018/9	15	1	To be arranged.
IT4004	Communication Skills 2	2017/8 & 2018/9	15	2	To be arranged.
IT4013	Modern Italy through Cinema	2017/8	15	1	To be arranged.
IT4014	Female Literary Representations in the Italian Renaissance	2017/8	15	1	To be arranged.
IT4024	Authority and Subversion in Renaissance Italy	2017/8	15	2	To be arranged.
IT4028	The Twentieth-century Italian Novel	2017/8	15	2	To be arranged.
IT4097	20-Credit Dissertation in Italian	2017/8 & 2018/9	20	1 or 2	To be arranged.
IT4098	Dissertation on an Italian Topic	2017/8 & 2018/9	15	1 or 2	To be arranged.
IT4099	Long Dissertation on an Italian Topic	2017/8 & 2018/9	30	Whole Year	To be arranged.
LATIN					
LT3017	Latin for Honours Classics 1	2017/8 & 2018/9	30	1	2.00 pm - 3.00 pm Tue, Thu and Fri
LT3018	Latin for Honours Classics 2	2017/8 & 2018/9	30	2	2.00 pm - 3.00 pm Tue, Thu and Fri
LT4201	Roman Epic	2017/8	30	1	11.00 am - 1.00 pm Thu
LT4208	Late Latin	2017/8	30	2	10.00 am - 12.00 noon Wed
LT4209	Latin Historical Writing	2017/8	30	2	11.00 am - 12.00 noon Tue and Fri
LT4210	Latin Didactic Poetry	2017/8	30	2	10.00 am - 12.00 noon Thu
LT4213	Roman Satire	2017/8	30	1	11.00 am - 1.00 pm Tue
LT4217	Latin Oratory	2017/8	30	1	11.00 am - 12.00 noon Wed and Fri
LT4221	Tools of the Classicist	2017/8	30	1	9.00 am - 11.00 am Wed
LT4999	Latin Dissertation	2017/8 & 2018/9	30	1 or 2	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
MANAGEMENT					
MN3101	Corporate Finance and Control	2017/8 & 2018/9	20	1	To be arranged.
MN3102	Organisation Studies	2017/8 & 2018/9	20	1	4.00 pm - 6.00 pm
MN3116	Financial Markets and Investments	2017/8	20	2	To be arranged.
MN3126	International Business	2017/8	20	2	To be arranged.
MN3201	Research Methods: 1	2017/8 & 2018/9	20	1	To be arranged.
MN3202	Research Methods: 2	2017/8 & 2018/9	20	2	To be arranged.
MN4100	Contemporary Issues in Management	2017/8 & 2018/9	20	2	To be arranged.
MN4211	International Marketing	2017/8	20	2	To be arranged.
MN4213	Human Resource Management	2017/8	20	1	To be arranged.
MN4214	Management of Change	2017/8	20	2	To be arranged.
MN4223	International Banking	2017/8	20	2	11.00 am - 1.00 pm Fri
MN4227	Corporate Social Responsibility, Accountability and Reporting	2017/8	20	1	To be arranged.
MN4236	Sociology of Finance	2017/8	20	1	To be arranged.
MN4238	Sustainable Development and Management	2017/8	20	2	To be arranged.
MN4241	Knowledge Work: Practice and Context	2017/8	20	2	To be arranged.
MN4242	Advertising and Marketing Communications	2017/8	20	1	To be arranged.
MN4243	Philanthropy and Philanthropreneurs: the business of doing good	2017/8	20	1	To be arranged.
MN4244	Behavioural Decision Making	2017/8	20	1	To be arranged.
MN4245	Leadership Development	2017/8	20	1	To be arranged.
MN4263	Entrepreneurship and Small Business Development	2017/8	20	1	To be arranged.
MN4266	Non Governmental Organisations (NGOs): Contexts, Contributions, and Challenges	2017/8	20	2	To be arranged.
MN4268	Equality and Diversity in Organisations	2017/8	20	2	To be arranged.
MN4301	Management Project	2017/8	20	1 or 2	To be arranged.
MN4310	Scenario Thinking	2018/9	20	2	To be arranged.
MN4311	Dynamic Strategic Management	2017/8	20	2	To be arranged.
MATHEMATICS AND STATISTICS					
MT3501	Linear Mathematics 2	2017/8 & 2018/9	15	1	12.00 noon Mon (even weeks), Tue and Thu
MT3502	Real Analysis	2017/8 & 2018/9	15	1	11.00 am Mon (even weeks), Tue & Thu
MT3503	Complex Analysis	2017/8 & 2018/9	15	1	12.00 noon Mon (odd weeks), Wed and Fri
MT3504	Differential Equations	2017/8 & 2018/9	15	1	9.00 am Mon (odd weeks), Wed and Fri
MT3505	Algebra: Rings and Fields	2017/8 & 2018/9	15	2	11.00 am Mon (odd weeks), Wed & Fri
MT3506	Techniques of Applied Mathematics	2017/8 & 2018/9	15	2	12.00 noon Mon (odd weeks), Wed & Fri
MT3507	Mathematical Statistics	2017/8 & 2018/9	15	1	11.00 am Mon (odd weeks), Wed & Fri
MT3508	Applied Statistics	2017/8 & 2018/9	15	2	12.00 noon Mon (even weeks), Tue & Thu
MT3802	Numerical Analysis	2017/8 & 2018/9	15	1	10.00 am Mon (odd weeks), Wed and Fri
MT3832	Mathematical Programming	2017/8	15	2	12.00 noon Mon (odd weeks), Wed and Fri
MT3852	Automata, Languages and Complexity	2018/9	15	2	10.00 am Mon (even weeks) and 2.00 pm - 4.00 pm Mon
MT4003	Groups	2017/8 & 2018/9	15	2	9.00 am Mon (even weeks), Tue and Thu
MT4004	Real and Abstract Analysis	2017/8 & 2018/9	15	2	11.00 am Mon (even weeks), Tue and Thu
MT4005	Linear and Nonlinear Waves	2017/8 & 2018/9	15	1	11.00 am Mon (even weeks), Tue and Thu
MT4111	Symbolic Computation	2018/9	15	2	9.00 am Mon (odd weeks), Wed and Fri

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
MATHEMATICS AND STATISTICS (continued)					
MT4112	Computing in Mathematics	2017/8	15	1	9.00 am Mon (even weeks), Tue and Thu
MT4113	Computing in Statistics	2017/8 & 2018/9	15	1	12.00 noon Mon (odd weeks) and Wed, 12.00 noon - 2.00 pm Fri
MT4501	Topics in the History of Mathematics	2017/8	15	1	12.00 noon Mon (odd weeks), Wed and Fri
MT4507	Classical Mechanics	2018/9	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4508	Dynamical Systems	2017/8	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4509	Fluid Dynamics	2017/8 & 2018/9	15	2	11.00 am Mon (even weeks), Tue and Thu
MT4510	Solar Theory	2017/8 & 2018/9	15	2	11.00 am Mon (odd weeks), Wed and Fri
MT4511	Asymptotic Methods	2018/9	15	1	9.00 am Mon (even weeks), Tue and Thu
MT4513	Fractal Geometry	2017/8	15	2	12.00 noon Mon (even weeks), Tue and Thu
MT4514	Graph Theory	2018/9	15	1	10.00 am Mon (even weeks), Tue and Thu
MT4515	Functional Analysis	2018/9	15	2	12.00 noon Mon (even weeks), Tue and Thu
MT4516	Finite Mathematics	2017/8	15	1	10.00 am Mon (even weeks), Tue and Thu
MT4519	Number Theory	2017/8	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4526	Topology	2017/8	15	2	10.00 am Mon (odd weeks), Wed and Fri
MT4527	Time Series Analysis	2018/9	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4528	Markov Chains and Processes	2017/8	15	1	11.00 noon Mon (even weeks), Tue and Thu
MT4530	Population Genetics	2017/8	15	1	9.00 am Mon (even weeks), Tue and Thu
MT4531	Bayesian Inference	2017/8 & 2018/9	15	1	10.00 am Mon (even weeks), Tue and Thu
MT4537	Spatial Processes	2017/8	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4539	Quantitative Risk Management	2017/8 & 2018/9	15	2	12.00 noon Wed, Fri and odd Mon, and 2.00 pm Fri
MT4551	Financial Mathematics	2017/8	15	2	10.00 am Mon (odd weeks), Wed and Fri
MT4552	Mathematical Biology 1	2017/8 & 2018/9	15	2	9.00 am Mon (even weeks), Tue and Thu
MT4553	Theory of Electric and Magnetic Fields	2018/9	15	2	10.00 am Mon (odd weeks), Wed, Fri
MT4599	Project in Mathematics / Statistics	2017/8 & 2018/9	15	Whole Year	none
MT4606	Statistical Inference	2017/8	15	2	10.00 am Mon (odd weeks), Wed and Fri
MT4607	Generalised Linear Models and Data Analysis	2018/9	15	1	9.00 am Mon (even weeks), Tue and Thu
MT4608	Sampling Theory	2018/9	15	1	10.00 am Mon (odd weeks), Wed and Fri
MT4609	Multivariate Analysis	2018/9	15	2	10.00 am Mon (odd weeks), Wed and Fri
MT4614	Design of Experiments	2017/8 & 2018/9	15	2	9.00 am Mon (odd weeks), Wed and Fri
MT4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	Whole Year	To be arranged.
MT4796	Joint Project (30cr)	2017/8	30	Whole Year	To be arranged.
MT5611	Advanced Symbolic Computation	2018/9	20	2	9.00 am Mon (odd weeks), Wed and Fri

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MATHEMATICS AND STATISTICS (continued)					
MT5701	Advanced Statistical Inference	2017/8	20	2	10.00 am Mon (odd weeks), Wed and Fri
MT5751	Estimating Animal Abundance	2018/9	15	2	12.00 noon Mon (odd), Wed and Fri
MT5753	Statistical Modelling	2017/8 & 2018/9	20	1	2.00 pm - 5.00 pm Mon - Thu and 2.00 pm - 3.00 pm Fri (Weeks 5 - 9)
MT5757	Advanced Data Analysis	2017/8 & 2018/9	20	2	12.00 noon Mon (even weeks), Tue and Thu
MT5758	Applied Multivariate Analysis	2017/8 & 2018/9	15	2	11.00 am Mon (even weeks), Tue and Thu
MT5802	Advanced Analytical Techniques	2017/8 & 2018/9	20	2	12.00 noon Mon (odd weeks), Wed and Fri
MT5806	Advanced Computational Techniques	2017/8 & 2018/9	20	2	12.00 noon Mon (even weeks), Tue and Thu
MT5809	Advanced Fluid Dynamics	2017/8 & 2018/9	20	1	11.00 am Mon (odd weeks), Wed and Fri
MT5810	Advanced Solar Theory	2017/8 & 2018/9	20	1	12.00 noon Mon (even weeks), Tue and Thu
MT5821	Advanced Combinatorics	2017/8 & 2018/9	20	2	12.00 noon Mon (odd weeks), Wed and Fri
MT5823	Semigroups	2017/8	20	2	9.00 am Mon (odd weeks), Wed and Fri
MT5824	Topics in Groups	2017/8 & 2018/9	20	1	10.00 am Mon (odd weeks), Wed and Fri
MT5825	Measure and Probability Theory	2017/8 & 2018/9	20	1	11.00 am Mon (odd weeks), Wed and Fri
MT5827	Lie Algebras	2017/8	20	2	11.00 am Mon (odd weeks), Wed and Fri
MT5830	Topics in Geometry and Analysis	2018/9	20	2	10.00 am Mon (odd weeks), Wed and Fri
MT5831	Advanced Bayesian Inference	2017/8 & 2018/9	20	1	10.00 am Mon (even weeks), Tue and Thu
MT5836	Galois Theory	2018/9	20	2	11.00 am Mon (odd weeks), Wed and Fri
MT5837	Ergodic Theory and Dynamical Systems	2017/8	20	2	9.00 am - 10.00 am Mon (even teaching weeks), Tue, Thu
MT5852	Mathematical Biology 2	2017/8 & 2018/9	20	1	9.00 am Mon (odd weeks), Wed and Fri
MT5990	Independent Study Module	2017/8 & 2018/9	20	1 or 2	To be arranged.
MT5991	Professional Skills for Mathematical Scientists	2017/8 & 2018/9	30	Whole Year	To be arranged.
MT5999	Advanced Project in Mathematics / Statistics	2017/8 & 2018/9	40	Whole Year	To be arranged.
MEDIAEVAL HISTORY (see also History, Middle Eastern History)					
ME3105	Archaeological Methods	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3162	The Mediaeval Castle	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3163	The Imperial City: Byzantine and Ottoman Constantinople	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3206	Heretics and Social Outcasts in Western Europe	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3214	Italian City States: from Communes to Signorie c. 1000- c. 1350	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3223	The Rise and Fall of the Carolingian Empire, c.750 - 900	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3231	Mediaeval Apocalyptic Traditions 400 - 1200	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3232	Queens and Queenship in Early Mediaeval Europe	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3237	Legal Cultures in Late Antiquity	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
MEDIAEVAL HISTORY (continued)					
ME3238	Holy Lives in Late Antiquity	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3304	Age of Conquest: Edward I - Scotland and Wales (1239 - 1307)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable .
ME3308	Adomnan and his World: Scotland and Ireland in the Dark Ages	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3309	Mediaeval St Andrews	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3313	Early Irish Society (c. 600 - 800)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3314	Times of trouble: civil conflicts in the later fifteenth century	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3420	Rich and Poor in the Later Middle Ages	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3425	The Age of Revolt (1250 - 1450)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3426	Women and Gender in the Later Middle Ages	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3427	Nature and the Occult in the Late Middle Ages	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3602	The Crusades viewed from the other side: Muslim perspectives	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3608	Eastern Approaches: Early Mediaeval Armenia c. 500 - 750	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3612	Cataclysm and Consolidation: the Reconfiguration of the Middle East in the Seventh Century	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3617	The Mamluks And The Mamluk Sultanate	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4712	'A Century of Iron': Rulers, Warriors and Scholars in Tenth-Century England and Germany	2017/8	60	Whole Year	9.30 am - 12.30 pm Wed
ME4752	The Wars of the Bruces: Kings, Nobles and Communities in the British Isles (1306 - 1346)	2017/8	60	Whole Year	9.30 am - 12.30 pm Wed
ME4756	Historia Brittonum: Inventing the Past in Ninth-Century Wales	2017/8	60	Whole Year	9.30 am - 12.30 pm Wed
ME4806	The Age of Charlemagne c. 750 - 830	2017/8	60	Whole Year	9.30 am - 12.30 pm Wed
ME4807	The Early Mendicants: Francis, Clare and Dominic (c. 1180 - c. 1270)	2017/8	60	Whole Year	10.00 am - 1.00 pm Wed
ME4815	France from Philip Augustus to Philip the Fair	2017/8	60	Whole Year	To be arranged.
ME4855	Crusaders, Mongols and Mamluks: West and East in the Mid-Thirteenth Century	2017/8	60	Whole Year	10.00 am - 1.00 pm Wed
ME4856	From Byzantium to the Ottoman Empire	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4998	Honours Dissertation in Mediaeval Archaeology	2017/8 & 2018/9	30	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MEDICINE					
MD3001	Medicine: Honours 1 (Cardiovascular and Respiratory Systems)	2017/8 & 2018/9	60	1	To be arranged.
MD3002	Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)	2017/8 & 2018/9	60	2	To be arranged.
MD4001	Medicine: Honours 3 (Central Nervous System and Endocrine System)	2017/8 & 2018/9	60	1	To be arranged.
MD4002	Medicine: Honours 4 (Student-selected component)	2017/8 & 2018/9	40	2	To be arranged.
MD4003	Medicine: Honours 5 (Applied Medical Science)	2017/8 & 2018/9	20	2	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
MODERN HISTORY (see also History, Middle Eastern History)					
MO3005	The Early Reformation in Europe (1517 - 1555)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3019	The Life of the Mind: Key Texts in European Thought (1512 - 1697)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3027	Women and Men in Europe (1500 - 1800)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3029	The Northern Renaissance	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3038	War and the State in the Era of the "Military Revolution" (1550 - 1730)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3040	From Cradle To Grave: Living and Dying in Early Modern England (c. 1500 - 1800)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3041	Culture and Mentalities in Early Modern England (c. 1500 - 1800)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3043	Early Modern Rome (1300 - 1667)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3044	Topics in Renaissance Venice	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3047	The Tudors: Power and Piety in Sixteenth-Century England	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3049	Political Thought From Machiavelli to Tocqueville	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3081	The Ottoman Empire 1300 - 1700	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3162	Early Modern Scotland in the age of British Unions (1603-1707)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3163	Scotland and the Wider World	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3166	Debating Britain: Anglo-Scottish Unionism 1521 - 1707	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3217	Travel Cultures in Europe in the Eighteenth and Nineteenth Centuries	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3218	The American Revolution	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3222	French Fancy and Cool Britannia? Franco-British Cultural Relations from Seven Years' War to French Revolution	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3223	Early colonial South Asia (c. 1700 - 1857)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3263	British Culture in the Eighteenth Century	2017/8	30	2	See http://www.standrews.ac.uk/history/infooug/ugtimetable
MO3302	Imperial Russia 1815 - 1917	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3320	Imperialism and Nationalism: The British Empire in India 1857 - 1947	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3329	The Kaiser: Aspects of Emperor Wilhelm II (1859 - 1941)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3331	The Victorians: Religion and Respectability	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3334	Nature and Society in Victorian Britain	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3335	The Japanese Empire and its Aftermath (1873 - 1952)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3336	Mediterranean Colonialism: Colonisers and Colonised in France, Spain, Italy and North Africa 1890s - 1950s	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3337	China's Revolutions (1850 - 1989)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable
MO3338	Disease and the Environment (c. 1500 - 2000)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infooug/ugtimetable

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
MODERN HISTORY (continued)					
MO3346	Politics, Culture and Society in the French Revolution (1789-1815)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3349	The American Metropolis	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3351	Doing and Practicing Transnational and Global History in the Late Modern World	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html
MO3352	Migrant South Asia (c. 17th-20th centuries)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3353	The Rise of the Nation State in Central Europe (1912 - 1941)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3381	French Algeria (1830-1962)	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3406	The Soviet Union	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3422	The United States in Depression and War (1929 - 1945)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3423	Dictatorship in Practice: Everyday Life in Fascist Italy, Nazi Germany, Franco's Spain and the Stalinist Soviet Union	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3425	Stalinism, Nazism and Central Europe (1912 - 1941)	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3461	Britain in the 1920s and 1930s: Aspects of everyday life	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3513	Heavenly Decade: The 1960s	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3514	The Life and Times of the Atom Bomb	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3516	Popular Culture, Nation and Society: Leisure in Britain 1880 - 1960	2017/8	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3561	Thatcherism, the 'new right', and the remaking of British politics, c. 1940 - 1997	2017/8	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4806	Britain and the Thirty Years' War (1618 - 1648)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4903	Blood, Courts and Glory: The Catholic Reformation	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4904	Madness and its Social Milieu in Britain (1560 - 1820)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4912	French Absolutism: Richelieu to Louis XIV	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4914	The German Enlightenment in European Perspectives	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4932	Russians Making History (1755 - 2000)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4936	Bismarck: Biography - Politics - Mythology	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4937	Charles Darwin and the Politics of Progress	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4938	Progress and Reform: The United States (1880 - 1930)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4940	Britain in the Era of the Great War	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4952	The Kennedy Years	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4959	British Cinema History (1920 - 1960)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4962	France and Africa in the Twentieth Century: Colonialism, Anti-colonialism, Post-colonialism	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
MODERN HISTORY (continued)					
MO4965	Ethnic Cleansing and Genocide in Twentieth-Century Europe	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4967	Elizabethan England: Politics, Religion, and Personalities (1558 - 1603)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4968	Curiosity, Empire and Science in Eighteenth-Century Europe	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4970	Revolutions and Empires (1776 - 1848)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4971	The City in East and Southeast Asia c. 1850 - 1950	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4972	Understanding Resistance and Protest in Modern India (c.19th - 21st centuries)	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4973	Twentieth-Century Germany: A Sense of Place	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4974	The British Town in the Long Eighteenth Century	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4975	Print, Progress and Public opinion. Towards a New History of Print Culture in Early Modern Europe	2017/8	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MODERN LANGUAGES					
ML3101	Modern Languages Integrated Year Abroad	2017/8 & 2018/9	60	Whole Year	n/a
ML4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	Whole Year	To be arranged.
MUSIC					
MU3001	Concert Performance	2017/8 & 2018/9	30	2	To be arranged.
NEUROSCIENCE (see also Psychology)					
PN3312	Pharmacology	2017/8 & 2018/9	20	2	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.
PN3313	Neuroscience	2017/8 & 2018/9	20	1	Lectures: 12.00 am Mon, Tue and Wed Practicals: to be arranged.
PN4230	Neurodegeneration and Aging	2017/8	15	1	Seminars: 3.00 pm - 4.00 Mon, 1.00 pm - 2.00 pm Thu (weeks 1-5); Seminars: 12.00 pm - 2.00 pm Thu (weeks 7 and 9-11); Labs: 2.00 pm - 5.00 pm Tues, Wed (week 8)
PN4231	Neuromodulation	2017/8	15	2	Lectures: 11.00 am - 12.00 noon Tue and 10.00 am - 11.00 am Fri. Practical to be arranged.
PN4234	Synaptic Transmission	2017/8	15	2	Lectures: 11.00 am - 12:30 pm Wed and 12.00 noon - 1.00 pm Fri. Practical to be arranged.
PN4235	Motoneurons: From Physiology to Pathology	2017/8	15	1	Lectures : 2.00 pm - 3.00 pm Mon and 9.00 am - 10.30 am Fri. Practical to be arranged.
PN4299	Neuroscience Research Project	2017/8 & 2018/9	60	Whole Year	To be arranged with the supervisor.
PERSIAN					
PR3001	Higher Intermediate Persian 1	2017/8 & 2018/9	15	1	1.00 pm Mon and 4.00 pm Thu
PR3002	Higher Intermediate Persian 2	2017/8 & 2018/9	15	2	1.00 pm Mon and 4.00 pm Thu
PR3020	Key Texts in Modern Persian Literature	2017/8	15	1	To be arranged.
PR3021	Modern Iran through Cinema	2017/8	15	2	To be arranged.
PR3022	Modernity and Iranian Drama	2017/8	15	2	To be arranged.
PR4001	Advanced Persian 1	2017/8 & 2018/9	15	1	4.00 pm Mon & 2.00 pm Thu
PR4002	Advanced Persian 2	2017/8 & 2018/9	15	2	4.00 pm Mon & 2.00 pm Thu
PR4020	Introduction to Classical Persian Literature	2017/8	15	2	To be arranged.
PR4021	Female Identity in Contemporary Iran	2017/8	15	1	To be arranged.
PR4098	Short Dissertation on a Persian Topic	2017/8 & 2018/9	15	1 or 2	To be arranged.
PR4099	Long Dissertation on a Persian Topic	2017/8 & 2018/9	30	Whole Year	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
PHILOSOPHY					
PY3100	Reading Philosophy 1: Texts in Language, Logic, Mind, Epistemology, Metaphysics and Science	2017/8 & 2018/9	30	1	To be arranged.
PY3200	Reading Philosophy 2: Texts in Ethics, Metaethics, Religion, Aesthetics and Political Philosophy	2017/8	30	2	To be arranged.
PY3999	Special Topic in Philosophy	2017/8	15	2	To be arranged.
PY4601	Paradoxes	2018/9	30	TBC	To be arranged.
PY4604	Political Philosophy	2018/9	30	TBC	To be arranged.
PY4606	Contemporary Epistemology	2017/8	30	1	To be arranged.
PY4607	Continental European Philosophy from Descartes to Leibniz	2018/9	30	2	To be arranged.
PY4608	Political Philosophy in the Age of Revolutions	2017/8	30	1	To be arranged.
PY4609	Philosophical Methodology	2018/9	30	TBC	To be arranged.
PY4610	Philosophy of Perception	2017/8	30	2	To be arranged.
PY4611	Classical Philosophy	2018/9	30	TBC	To be arranged.
PY4612	Advanced Logic	2017/8	30	2	To be arranged.
PY4614	Philosophy of Mind	2018/9	30	2	To be arranged.
PY4615	Metaphysics	2018/9	30	1	To be arranged.
PY4617	The Philosophy of Saul Kripke	2018/9	30	TBC	To be arranged.
PY4618	Animals, Minds and Language	2018/9	30	2	To be arranged.
PY4619	Social Philosophy	2018/9	30	TBC	To be arranged.
PY4620	Virtue and Vice	2018/9	30	TBC	To be arranged.
PY4621	British Philosophy 1650 - 1800: Hume	2018/9	30	TBC	To be arranged.
PY4622	Kant's Critical Philosophy	2017/8	30	2	To be arranged.
PY4624	Philosophy of Art	2018/9	30	1	To be arranged.
PY4625	Philosophy and Public Affairs: Global Justice	2017/8	30	1	To be arranged.
PY4626	Life and Death	2018/9	30	2	To be arranged.
PY4632	Contemporary Philosophy of Language	2017/8	30	2	To be arranged.
PY4634	Philosophy of Logic	2018/9	30	2	To be arranged.
PY4635	Contemporary Moral Theory	2017/8	30	1	To be arranged.
PY4638	Philosophy of Religion	2017/8	30	1	To be arranged.
PY4639	Philosophy of Creativity	2018/9	30	1	To be arranged.
PY4640	Mediaeval Philosophy	2017/8	30	1	To be arranged.
PY4641	Nineteenth-century Ethics and Philosophy	2018/9	30	TBC	To be arranged.
PY4642	Trust, Knowledge and Society	2018/9	30	TBC	To be arranged.
PY4643	Philosophy of Law	2018/9	30	2	To be arranged.
PY4644	Rousseau on Human Nature, Society, and Freedom	2018/9	30	1	To be arranged.
PY4645	Philosophy and Literature	2017/8	30	1	To be arranged.
PY4646	Reasons for Action and Belief	2018/9	30	1	To be arranged.
PY4647	Humans, Animals, and Nature	2018/9	30	2	To be arranged.
PY4648	Conceptual Engineering and its Role in Philosophy	2018/9	30	1	To be arranged.
PY4649	Core Works in Continental Philosophy	2017/8	30	1	To be arranged.
PY4650	Philosophy, Feminism and Gender	2018/9	30	2	To be arranged.
PY4651	Effective Altruism	2018/9	30	1	To be arranged.
PY4652	The Philosophy of Human Rights	2018/9	30	1	To be arranged.
PY4653	Toleration in the Early Modern Period	2017/8	30	2	To be arranged.
PY4654	Responsibility, Praise, and Blame	2018/9	30	TBC	To be arranged.
PY4655	Advanced Metaethics	2017/8	30	2	To be arranged.
PY4656	The Philosophy of Love and Sex	2017/8	30	2	To be arranged.
PY4698	Dissertation (Whole Year)	2017/8 & 2018/9	30	Whole Year	Not applicable.
PY4699	Dissertation in Philosophy	2017/8 & 2018/9	30	1 or 2	Not applicable.
PY4701	Philosophy and Pedagogy	2017/8	15	1	Not applicable.
PY4794	Joint Dissertation (30cr)	2017/8 & 2018/9	30	TBC	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
PHYSICS (see also Astronomy)					
PH3007	Electromagnetism	2017/8 & 2018/9	15	2	9.05 am Mon even numbered weeks, 9.05 Tue, Thu, 15.05 Fri odd-numbered weeks (TBC)
PH3012	Thermal and Statistical Physics	2017/8 & 2018/9	15	2	12.00 noon odd Mon, Wed, Fri, 2.00 pm even Tue (TBC)
PH3014	Transferable Skills for Physicists	2017/8 & 2018/9	15	Whole Year	10.00 am Wed, occasional 10.00 am Fri (TBC)
PH3061	Quantum Mechanics 1	2017/8 & 2018/9	10	1	9.00 am Tue, Thu (TBC)
PH3062	Quantum Mechanics 2	2017/8 & 2018/9	10	2	9.00 am Wed, Fri (TBC)
PH3074	Electronics	2017/8 & 2018/9	15	1	9.00 am Mon, Wed, Fri, 11.00 am Fri lab (TBC)
PH3080	Computational Physics	2017/8 & 2018/9	10	1	One of Mon 2-4, Tue 2-4, Tue 4-6 and one of Thu 2-4, Thur 4-6, Fri 2-4 (TBC)
PH3081	Mathematics for Physicists	2017/8 & 2018/9	15	1	10.00 am Tue, Thu and even Mon, 2.00 pm odd Mon (TBC)
PH3082	Mathematics for Chemistry / Physics	2017/8 & 2018/9	20	1	10.00 am odd Mon, Tue, Thu, 2.00 pm odd Mon, 3.00 pm Mon, and two x 2 hrs on two of Mon, Tue, Thu, Fri afternoons (TBC)
PH3101	Physics Laboratory 1	2017/8 & 2018/9	15	2	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)
PH4026	Signals and Information	2017/8 & 2018/9	15	2	11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon (TBC)
PH4027	Optoelectronics and Nonlinear Optics	2017/8 & 2018/9	15	1	9.00 am Tue, Thu, 3.00 pm Fri (TBC)
PH4028	Advanced Quantum Mechanics	2017/8 & 2018/9	15	2	12.00 noon even Mon, Tue and Thu, 4 pm odd Fri (TBC)
PH4031	Fluids	2017/8 & 2018/9	15	2	11.00 am even Mon, Tue, Thu, 2.00 pm odd Tue (TBC)
PH4032	Special Relativity and Fields	2017/8 & 2018/9	15	1	3.00 pm Tue, 4.00 pm Tue, Fri (TBC)
PH4034	Laser Physics 1	2017/8 & 2018/9	15	1	9.00 am Mon, Wed, Fri (TBC)
PH4035	Principles of Optics	2017/8 & 2018/9	15	2	12.00 noon odd Mon, Wed, Fri, 3 pm even Tue (TBC)
PH4036	Physics of Music	2017/8 & 2018/9	15	1	12.00 noon Mon, Tue, Thu (TBC)
PH4038	Lagrangian and Hamiltonian Dynamics	2017/8 & 2018/9	15	2	10.00 am even Mon, Tue, Thu, 2.00 pm odd Fri (TBC)
PH4039	Introduction to Condensed Matter Physics	2017/8 & 2018/9	15	1	11.00 am Wed, Fri, 2.00 pm Fri
PH4040	Nuclear and Particle Physics with Advanced Skills	2017/8 & 2018/9	15	1	14.00 Tue, Noon Wed and Fri (all from week 4), 10.00 Wed, occasional 10.00 Fri (TBC)
PH4041	Atomic, Nuclear, and Particle Physics	2017/8 & 2018/9	15	1	2.00 pm Tue, 12.00 noon Wed and Fri (TBC)
PH4042	Concepts in Atomic Physics and Magnetic Resonance	2017/8 & 2018/9	15	2	9.00 am odd Mon, 2.00 pm even Tue, 9.00 am Wed and Fri 9.00 (TBC)
PH4043	Studies in Physics and Chemistry	2017/8 & 2018/9	5	2	To be arranged.
PH4044	Advanced Condensed Matter Physics	2017/8 & 2018/9	15	2	To be arranged.
PH4105	Physics Laboratory 2	2017/8 & 2018/9	15	1	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)
PH4111	Physics Project (BSc)	2017/8 & 2018/9	30	Whole Year	Half time in second semester, plus some preparation in first semester.
PH5002	Foundations of Quantum Mechanics	2017/8 & 2018/9	15	1	2.00 pm Mon, Tue, Fri (TBC)
PH5003	Group Theory	2017/8 & 2018/9	15	1	12.00 noon Wed, Fri, 3.00 pm Mon (TBC)
PH5004	Quantum Field Theory	2017/8 & 2018/9	15	1	2.00 pm Thu, 3.00 pm Tue, Fri (TBC)
PH5005	Laser Physics 2	2017/8 & 2018/9	15	1	10.00 am Mon, Tue, Wed, Thu (TBC)
PH5011	General Relativity	2017/8 & 2018/9	15	1	9.00 am Wed, Fri, 3.00 pm Thu (TBC)
PH5012	Quantum Optics	2017/8 & 2018/9	15	1	11.00 am Mon, 11.00 am Tue, Thu (TBC)
PH5014	The Interacting Electron Problem in Solids	2017/8 & 2018/9	15	1	4.00 pm Mon, Tue, Thu (TBC)

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
PHYSICS (scontinued)					
PH5015	Applications of Quantum Physics	2017/8 & 2018/9	15	1	12.00 noon Mon, Tue, Thu (TBC)
PH5016	Biophotonics	2017/8 & 2018/9	15	1	9.00 am Mon, Wed, Fri (TBC)
PH5023	Monte Carlo Radiation Transport Techniques	2017/8 & 2018/9	15	1	11.00 am Wed, 2.00 pm Tue, Fri (TBC)
PH5024	Modern Topics in Condensed Matter Physics	2017/8 & 2018/9	15	1	10.00 am Tue, Wed, Thu (TBC)
PH5025	Nanophotonics	2017/8 & 2018/9	15	1	To be arranged.
PH5101	Physics Project (MPhys)	2017/8 & 2018/9	60	Whole Year	Full time in second semester, following some work in first.
PH5103	Project in Theoretical Physics (60)	2017/8 & 2018/9	60	Whole Year	Full time in second semester, following some work in first.
PH5104	Project in Theoretical Physics (Mathematics and Theoretical Physics Students)	2017/8 & 2018/9	65	Whole Year	Not applicable.
PSYCHOLOGY (see also Neuroscience)					
PS3021	Research Design and Analysis 1	2017/8 & 2018/9	15	1	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: one of Mon 1-2, 2-3, 3-4, 4-5
PS3022	Research Design and Analysis 2	2017/8 & 2018/9	15	2	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: two of Mon 1-2, 2-3, 3-4, 4-5
PS3031	Conceptual Issues and Theoretical Perspectives	2017/8 & 2018/9	10	1	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 1-5 only)
PS3032	Assessment in Clinical Psychology	2017/8 & 2018/9	10	2	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 6-10 only).
PS3033	Developmental Psychology	2017/8 & 2018/9	10	2	Lectures: 9.00 am - 11.00 am Thu. 1.5-hour practical: Thu, either 2-3:30 or 3:30-5. (Module runs in weeks 1 - 5 only)
PS3034	Social Psychology	2017/8 & 2018/9	10	2	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only)
PS3035	Cognitive and Behavioural Neuroscience	2017/8 & 2018/9	10	1	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only).
PS3036	Evolutionary and Comparative Psychology	2017/8 & 2018/9	10	2	Lectures: 9.00 am - 11.00 am Tue. 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 6 - 10 only).
PS3037	Perception	2017/8 & 2018/9	10	1	Lectures: 9.00 am - 11.00 am Tue. Four 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 7 - 11 only).
PS3038	Cognition	2017/8 & 2018/9	10	1	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 7 - 11 only).
PS4040	Psychology Review	2017/8 & 2018/9	10	Whole Year	Not applicable.
PS4050	Psychology Project (30)	2017/8 & 2018/9	30	Whole Year	Not applicable.
PS4060	Review Essay	2017/8 & 2018/9	15	Whole Year	To be arranged.
PS4069	Group Behaviour	2017/8	15	2	To be arranged.
PS4071	Behavioural Neuroscience	2017/8	15	1	11.00 am - 1.00 pm Thu
PS4074	Cognitive Psychology and the Emotional Disorders	2017/8	15	1	9.00 am - 11.00 am Mon
PS4079	Sex Differences and Gender Development	2017/8	15	2	11.00 am - 1.00 pm Fri
PS4083	Psychology of Music	2017/8	15	1	11.00 am - 1.00 pm Mon
PS4084	Psychology of Art: Aesthetics and Individual Differences in Visual Function	2017/8	15	2	11.00 am - 1.00 pm Wed

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
PSYCHOLOGY (continued)					
PS4085	Evolution and Development of Social and Technical Intelligence	2017/8	15	1	11.00 am - 1.00 pm Fri
PS4086	Origins and Evolution of Mind Reading (Theory of Mind)	2017/8	15	2	9.00 am - 11.00 am Fri
PS4089	Neural Basis of Episodic Memory	2017/8	15	1	11.00 am - 1.00 pm Tue
PS4090	Face Perception and Human Attraction	2017/8	15	2	9.00 am - 11.00 am Wed
PS4091	Computer-aided Research	2017/8	15	1	9.00 am - 11.00 am Tue
PS4093	The Psychology of Dementia	2017/8	15	1	11.00 am - 1.00 pm Wed
PS4094	Communicating Psychology and Neuroscience	2017/8	15	2	11.00 am - 1.00 pm Mon
PS4095	Psychopathology	2017/8	15	2	9.00 am - 11.00 am Mon
PS4096	Mechanisms of Behaviour: integrating psychological and neuroscience perspectives	2017/8	15	2	12.00 noon - 2.00 pm Tue
PS4097	Research Methods in Cognitive Neuroscience	2017/8	15	2	9.00 am - 11.00 am Tue
PS4100	The Psychology of Terrorism	2017/8	15	1	9.00 am - 11.00 am Fri
PS4299	Psychology Project (60)	2017/8 & 2018/9	60	Whole Year	To be arranged with the supervisor.
PS4796	Joint Project (30cr)	2017/8 & 2018/9	30	TBC	To be arranged.
PS4797	Joint Project (60cr)	2017/8	60	Whole Year	To be arranged.
RUSSIAN					
RU3001	Advanced Russian Language 1, Part 1	2017/8 & 2018/9	15	1	To be arranged.
RU3002	Advanced Russian Language 1, Part 2	2017/8 & 2018/9	15	2	To be arranged.
RU3005	Advanced Russian Translation 1	2017/8 & 2018/9	15	1	To be arranged.
RU3024	A Special Russian Author of the Nineteenth Century: Pushkin	2017/8	15	1	To be arranged.
RU3044	Russia's Literary Easts	2017/8	15	2	To be arranged.
RU3101	Russian Integrated Year Abroad	2017/8 & 2018/9	60	Whole Year	Please Contact Department
RU3102	Semester of Study in Russia	2017/8 & 2018/9	60	1 & 2 (taught twice)	Please Contact Department
RU3110	Advanced Russian Translation 2	2017/8 & 2018/9	15	2	To be arranged.
RU4101	Advanced Russian Language 2	2017/8 & 2018/9	15	1	To be arranged.
RU4104	Russian Communication Skills	2017/8 & 2018/9	15	2	To be arranged.
RU4133	Russian Children's Literature (1900 - 2015)	2017/8	15	2	To be arranged.
RU4142	The Fantastic in Nineteenth-Century Russian Literature	2017/8	15	1	To be arranged.
RU4143	Gender in Russian Literature and Culture	2017/8	15	1	To be arranged.
RU4153	Voices of the Russian Enlightenment	2017/8	15	2	To be arranged.
RU4198	Dissertation on a Russian Topic	2017/8 & 2018/9	15	1 or 2	Please Contact Department
RU4199	Long Dissertation on a Russian Topic	2017/8 & 2018/9	30	Whole Year	Please Contact Department
SOCIAL ANTHROPOLOGY					
SA3030	Critical Thinkers and Formative Texts	2017/8	30	1	2.00 pm and 3.00 pm Tue
SA3032	Regional Ethnography 1	2017/8	30	1	1.00 pm Mon
SA3049	Perception, Imagination and Communication	2017/8	30	2	To be arranged.
SA3053	Individuality, Community and Morality	2017/8	30	1	To be arranged.
SA3060	Contemporary Issues in Social Anthropology	2017/8 & 2018/9	30	1	To be arranged.
SA3061	Reading Ethnography	2017/8	30	2	To be arranged.
SA3062	Anthropology, Indigenous Peoples and Resource Extraction	2017/8	30	2	To be arranged.
SA3065	Anthropology of Economic Life	2017/8	30	2	11.00 am (days To be confirmed)
SA3506	Methods in Social Anthropology	2017/8 & 2018/9	30	2	To be arranged.
SA4058	Visual Anthropology	2017/8	30	2	1.00 pm Mon Lecture, 2.00 pm - 4.00 pm Thu (film), Fri 1.00 pm - 2.00 pm OR 2.00 pm - 3.00 pm (tutorial).
SA4060	Anthropology of Religion and Politics	2017/8	30	1	To be arranged.

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
SOCIAL ANTHROPOLOGY (continued)					
SA4098	Library-based Dissertation	2017/8 & 2018/9	30	Whole Year	To be arranged.
SA4099	Primary Research-based Dissertation	2017/8 & 2018/9	30	Whole Year	To be arranged.
SA4797	Joint Project (60cr)	2017/8 & 2018/9	60	Whole Year	To be arranged.
SA4850	Andes	2017/8	30	2	2.00 pm - 4.00 pm Tue
SA4863	Youth in Africa	2017/8	30	2	2.00 pm Thu
SA4866	Anthropology and Eurasia	2017/8	30	1	10.00 am - 12.00 noon Tue (film), 11.00 am - 1.00 pm Thu Lecture
SPANISH					
SP3001	Spanish Language 1	2017/8 & 2018/9	15	1	9.00 am Thu, plus 1 practical to be arranged on Tue
SP3002	Spanish Language 2	2017/8 & 2018/9	15	2	9.00 am Thu, plus 1 practical to be arranged on Tue
SP3006	Literary Translation	2017/8 & 2018/9	15	1	9.00 am - 10.30 am Wed
SP3011	History of the Spanish Language	2017/8	15	1	2.00 pm - 3.30 pm Fri
SP3101	Spanish Integrated Year Abroad	2017/8 & 2018/9	60	Whole Year	Please Contact Department
SP3121	Spanish American Literature I (Gauchos and Indians)	2017/8	15	2	9:00 am - 10:30 am Wed
SP3122	Spanish American Literature 2	2018/9	15	2	9.00 am - 10.30 am Wed
SP3138	Mexico in the Nineteenth Century	2017/8	15	1	11.00 am - 12.30 pm Wed
SP3145	Post-1975 Writing in Spain 1	2017/8	15	2	To be arranged.
SP3147	The Art of Subversion in Post-War Spain (1939-1975)	2018/9	15	2	To be arranged.
SP3148	The Argentine and Chilean Avant-Garde (1920s-1930s)	2017/8	15	1	To be arranged.
SP3157	Autobiographical Writing in Twentieth-Century Spain	2017/8	15	1	To be arranged.
SP3158	Representations of the Urban: Twentieth-Century Buenos Aires	2018/9	15	1	To be arranged.
SP3160	Facing the New: Spanish Literature and Society (1888 - 1918)	2018/9	15	1	To be arranged.
SP3162	Strange Girls and Domestic Angels: Women's Writing in Spain	2017/8	15	2	2.00 pm - 3.30 pm Thu
SP3163	Tales of the Nation	2018/9	15	1	2.00 pm - 3.30 pm Tue
SP3222	Love and Loss	2017/8	15	1	2.00 pm - 3.30 pm Thu
SP4003	Spanish Language 3	2017/8 & 2018/9	15	1	9.00 am Thu, plus 1 practical to be arranged on Tue
SP4004	Spanish Language 4: Communication Skills	2017/8 & 2018/9	15	2	9.00 am Thu, plus 1 practical to be arranged on Tue
SP4012	Linguistic Study of the Spanish Language	2017/8	15	2	2.00 pm - 3.30 pm Fri
SP4013	Culture and Conflict: Representing the Spanish Civil War	2018/9	15	2	2.00 pm - 3.30 pm Thu
SP4014	Spanish Avant-garde(s)	2017/8	15	2	3.00 pm - 4.30 pm Tue
SP4015	Action Heroes and Anti-heroes in Early-Modern Spain	2017/8	15	1	9.30 am - 11.00 am Tue
SP4016	Contemporary Galician Women Writers	2017/8	15	1	To be arranged.
SP4098	Dissertation on a Spanish Topic	2017/8 & 2018/9	15	1 & 2 (taught twice)	To be arranged.
SP4099	Long Dissertation on a Spanish Topic	2017/8 & 2018/9	30	Whole Year	To be arranged.
SP4102	Semester with Study Abroad in Spain	2017/8	30	1	To be arranged.
SP4223	History and Culture in Spanish Texts	2017/8	15	2	To be arranged.
SP4224	Reality and Illusion	2017/8	15	2	9.30 am - 11.00 am Tue

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Module Code	Module Title	Year (s)	Credits	Semester	Planned Timetable
SUSTAINABLE DEVELOPMENT (see also Sustainable Geography)					
SD3100	Methodologies for Sustainable Development	2017/8	30	2	To be arranged.
SD3110	Environmental Economics	2017/8	30	1	10.00 am - 1.00 pm Thu
SD3111	Home & Energy Geographies	2018/9	30	1	10.00 am - 1.00 pm Thu
SD4110	Transitioning to sustainability: community, nature and governance	2017/8	30	2	To be arranged.
SD4111	Governance for Sustainability	2018/9	30	1	10.00 am - 1.00 pm Fri
SD4112	Global Energy Politics	2017/8	30	1	10.00 am - 1.00 pm Fri
SD4113	Environment and Development Economics	2018/9	30	1	To be arranged.
SD4297	Dissertation in Sustainable Development	2017/8	30	2	To be arranged.
SD4299	Dissertation in Sustainable Development	2017/8	60	Whole Year	To be arranged.
SUSTAINABLE GEOGRAPHY (see also Sustainable Development)					
SG4221	Review Essay	2017/8 & 2018/9	20	1	4.00 pm - 6.00 pm Thu
SG4222	Advanced Qualitative Analysis	2017/8	20	1	2.00 pm - 4.00 pm Thu
SG4223	Advanced Quantitative Analysis	2017/8	20	1	1.00 pm - 5.00 pm Tue
SG4224	Advanced Topics in Physical Sciences	2017/8	20	1	2.00 pm - 5.00 pm Tue
SG4228	Advanced Topics in Geographic Information Science (GISci)	2017/8	20	1	1.00 pm - 5.00 pm Mon