

2015 - 2016

Honours Level Module Catalogue



University of
St Andrews
FOUNDED
1413

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Disclaimer

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 22).

Explanation of Fields in Module Entries

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

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

SCOTCAT Credits. Credits are the number of points a specific module contributes towards a recognised degree programme and are grouped according to the **level** of academic content in the module. A student's studies towards a degree will be structured in terms of modules, each of which is assigned a credit value; so, for example, 1000-level modules in the School of Art History are worth 20 credits. One credit represents the outcome achievable by the average student through 10 notional hours of learner effort. In practice, one full-time undergraduate year is considered to be 120 credits worth of learning (or 1,200 notional hours of learning).

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

Semester(s). The Semester or Semesters in which the module is taught, where 'either' means that the module is taught in both one or the other semesters, 'both' means being offered twice, and 'whole year' means that it is taught across the two semesters. The St Andrews teaching year has two semesters (September - December, and January - May).

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

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

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

Pre-requisite(s). Modules or qualifications which must be passed prior to taking a given module. Second semester modules and 2000-level or above 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 **semester** or academic session as the one listed.

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

Required for. This field indicates that a module is required to be passed as a pre-requisite to entry to another module.

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

Learning and Teaching Methods and Delivery. This gives an indication of the anticipated **Weekly Contact** time with academic staff and the formal breakdown of **Scheduled Learning/Guided Independent Study** as defined by the Quality Assurance Agency (QAA).

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Weekly Contact. This is an indication of the weekly teaching provision for each student. The normal teaching period will be of one hour unless indicated otherwise. Where the pattern of teaching varies from week to week, **the average weekly contact is given.**

Tutorial. This is a discussion class of typically ten or fewer students.

Seminar. This is typically a group larger than ten, and may also involve student presentations and contributions as well as discussion.

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

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

Assessment pattern. This is a brief description of the distribution between coursework and formal examination. A percentage breakdown of which elements of assessment qualify in each Quality Assurance Agency (QAA) defined category are also given. These may match the narrative description ("As used by St Andrews"), or they may differ slightly because some elements of Coursework (Class Tests for example) can be considered Written Examinations in 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.

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

School of Art History

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.

Art History (AH) modules

AH3104 The Age of Klimt, Olbrich and Mucha				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Planned timetable:	3.00 pm - 5.00 pm Mon (lecture), and either 10.00 am or 11.00 am Wed (seminar) TBC			
<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: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr J Howard			
Lecturer(s)/Tutor(s):	Dr J Howard			

Art History - Honours Level - 2015/6 - October 2015

AH3116 Aspects of American Art in the Modern Period				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Tue (lecture) and either 11.00 am or 12.00 noon Fri (seminar)			
This module will examine key moments in the history of American art, concentrating on the period c.1880-1945. It is designed to explore the general trends and developments, key turning-points, and episodes of crisis. In this respect it will provide an art historical study of the period, while simultaneously examining theoretical and aesthetic shifts, and placing these changes within the context of social and historical events.				
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 seminar (x 11 weeks), 2 x tutor's office hours (x 12 weeks), Fieldtrip - 8 hours			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr T Normand			
Lecturer(s)/Tutor(s):	Dr T Normand			

AH4081 The Scandinavian Art of Building and Design (1890-1960)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am – 1.00 pm Mon (lecture) and either 9.00 am or 10.00 am Wed (seminar)			
This module offers an examination of aspects of Scandinavian architecture and design between 1890-1960. 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.				
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 tutorial (x 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr S Kallestrup			
Lecturer(s)/Tutor(s):	Dr S Kallestrup			

AH4097 60-Credit Honours Dissertation in Art History			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	As arranged with Supervisor and Honours Adviser		
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/)			
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:	1 x Written Assignment to be agreed by the Board of Examiners		
Module Co-ordinator:	Dr T Normand		
Lecturer(s)/Tutor(s):	Team taught		

Art History - Honours Level - 2015/6 - October 2015

AH4099 30-Credit Dissertation in Art History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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. (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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr T Normand			
Lecturer(s)/Tutor(s):	Team taught			

AH4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 Honours degrees in the School of 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

AH4795 Joint Dissertation (60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 Joint Honours degrees in the School of 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Art History - Honours Level - 2015/6 - October 2015

AH4108 Post-war Scottish Art 1950-present				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr T Normand			
Lecturer(s)/Tutor(s):	Dr T Normand			

AH4130 Realism and Symbolism in Russian Art 1860 - 1910				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	3.00 pm - 5.00 pm Tue (lecture) and either 9.00 am or 10.00 am Wed (seminar) - TBC			
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 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr J Howard			
Lecturer(s)/Tutor(s):	Dr J Howard			

AH4147 Classicism in Western Art: The Legacy of Greece and Rome				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am – 1.00 pm Thu(lecture) and either 3.00 pm or 4.00 pm Thu (seminar)			
<p>This module examines the role of Greek and Roman civilisation in shaping the arts and ideas of western culture. The topics expand from the Middle Ages to the present day, effectively spanning the main period divisions of art history. Broadly oriented geographically and chronologically, the module considers definitions of the classical, permutations and appropriations of classical forms and ideals, as well as changing attitudes to the classical past. The classical inheritance in terms of both style and iconography is examined in a variety of selected studies drawn from across Europe, focusing mainly on sculpture and painting.</p>				
Programme module type:	Optional for Art History			
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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Kouneni			
Lecturer(s)/Tutor(s):	Dr L Kouneni			

AH4148 Orientalism and Visual Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	11.00 am - 1.00 pm Wed and either 9.00 am or 11.00 am Thu - TBC			
<p>In this module we examine Orientalist art and the culture of travel from a post-colonial perspective. As well as the work of renowned artists including Ingres, Delacroix, Girome, J.F. Lewis, and Matisse we will address photography, international exhibitions, cross-cultural dressing, travel literature and film. Diverse European constructions of the exotic Orient will be examined including the contribution of women Orientalists. In this module, the European canon of Orientalism is resituated through the introduction of counter-narratives and alternative images made by North African and Ottoman artists and patrons.</p>				
Programme module type:	Optional for Art History			
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: 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Gartlan			
Lecturer(s)/Tutor(s):	Dr L Gartlan			

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AH4156 Seeing the Sixties				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 and 2016/7			
Planned timetable:	3.00 pm Mon and 9.00 am Wed (lectures) and either 11.00 am or 12.00 noon Fri (seminar)			
<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: 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr A Rider			
Lecturer(s)/Tutor(s):	Dr A Rider			

AH4157 The Age of Vermeer: Dutch Genre Painting in the Seventeenth Century				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	3.00 pm - 5.00 pm Tue (lecture) and either 11.00 am or 12.00 noon Thu (seminar)			
<p>This module offers an in-depth exploration of the nature and interpretation of seventeenth-century Dutch genre painting by such artists as Vermeer, Steen, De Hooch and Metsu. Alongside the social, cultural and historical context, we shall address different art-historical methodologies and approaches such as the study of meaning, realism, ideology, national identity, patronage, display, reception and the art market. We shall assess the emblematic/iconological approaches and the reactions against this method of interpretation; the aspects of realism, optics and the descriptive nature of Dutch art; and the hyper-realism and aesthetics of the Leiden 'fijnschilders'.</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 tutorial (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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr S Oosterwijk			
Lecturer(s)/Tutor(s):	Dr S Oosterwijk			

AH4161 Gauguin and Primitivism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 in 15/6 and 2 16/7
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am Tue and 10.00 am Wed and either 10.00 am or 11.00 am Thu			
<p>Paul Gauguin's (1848-1903) influential career and unconventional life continue to provoke both admiration and controversy. This module examines his painting, sculpture, graphic art, and writing, in the context of European modernism's obsession with the 'primitive'. It explores how Gauguin and associated artists including Van Gogh, the Nabis, and Picasso projected mythical values onto non-Western and rural cultures in their search for difference and 'authenticity'. Focusing on Gauguin's travels to Brittany, Arles, Martinique and Polynesia, we will examine his self-construction as an outsider in self-portraiture and autobiographical writing, his use of deliberately naive and anti-academic media and techniques, and his exploitation of both colonial and indigenous sources. We will pay particular attention to shifts in his critical reception, from his glorification as a 'noble savage' in early biographical accounts, to his exposure as a cultural and sexual tourist in feminist and postcolonial readings.</p>				
Programme module type:	Optional for Art History			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, 1 x 1 hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50% Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Goddard			
Lecturer(s)/Tutor(s):	Dr L Goddard			

AH4163 Approaches to Modern Sculpture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 and 2016/7			
Planned timetable:	9.00 am Tue and 9.00 am Wed (lectures) and either 11.00 am or 12.00 noon Fri (seminar)			
<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 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr A Rider			

Art History - Honours Level - 2015/6 - October 2015

AH4164 The Patronage of the Arts in the Este and Gonzaga Courts c. 1440 - c.1590				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	9.00 am Mon and 9.00 am Tue (lectures) and either 10.00 am Mon or 10.00 am Tue (seminars)			
<p>In the fifteenth and sixteenth centuries the courts of the Este in Ferrara and the Gonzaga in Mantua were relatively small in comparison to other Italian courts, yet their prestige was due in large measure to their patronage of the arts and to their strategic position of military influence between papal and imperial power. With their hunger for novelty, love of magnificence, and thirst for recognition, they played a key role in the dissemination and development of Renaissance ideas. Through an in-depth analysis of buildings, sculptures, manuscripts and paintings the module explores how the towns of Ferrara and Mantua were transformed into innovative artistic centres. Artists covered include Donatello, Piero della Francesca, Andrea Mantegna, Cosme Tura, Dosso Dossi, Titian, Leon Battista Alberti, Biagi o Rossetti, Giulio Romano, and many others.</p>				
Programme module type:	Optional for Art History			
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.			
	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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Moretti			
Lecturer(s)/Tutor(s):	Dr L Moretti			

AH4165 Cubism and its Legacies				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Tue and 10.00 am Wed (lectures) and either 10.00 am or 11.00 am Thu			
<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: 1 x 1.5-hour lecture, 1 x 1.5-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Goddard			
Lecturer(s)/Tutor(s):	Dr L Goddard			

AH4166 Histories of Photography (1835 - 1905)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2 in 15/6 and 1 in 16/7
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Wed (lecture) and either 10.00 am or 12.00 noon Thu (seminars)			
<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 ware photography in Victorian Britain, portraiture and celebrity, imperial landscapes, the modern city, exploration photography, Kodak and modern tourism, and the body of photography. Students will become familiar with the work of major photographers of the period, including Fox Talbot, Hill and Adamson, Julia Margaret Cameron, Lady Hawarden, Lewis Carroll, Nadar and Alexander Gardner.</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: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Gartlan			
Lecturer(s)/Tutor(s):	Dr L Gartlan			

AH4167 Symbolism, Decadence and Modernity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year: ¹	2016/7			
Planned timetable:	– 10.00 am Tue and 10.00 am Wed (lectures) and either 10.00 am or 11.00 am Thu (seminar) - TBC			
<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.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: ² Coursework = 100%			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Goddard			
Lecturer(s)/Tutor(s):	Dr L Goddard			

Art History - Honours Level - 2015/6 - October 2015

AH4170 Art, Piety and Performance: Charitable Institutions in Early Modern Venice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	9.00 am Mon and 9.00 am Tue (lectures) and either 10.00 am Mon or 10.00 am Tue (seminars) - TBC			
<p>During the Early Modern period, an elaborate network of charitable institutions developed in Venice. The scuole, self-governing lay brotherhoods, and the ospedali, state-run hospitals, were distinctive social institutions, and the source of an important and characteristic type of patronage, commissioning works of art from the major artists of the period, such as Gentile and Giovanni Bellini, Carpaccio, Titian, Sansovino, Tintoretto, Palladio and Giambattista Tiepolo, among others. These institutions often staged public spectacles and performed charitable acts within a highly-regulated civic environment, playing an important role in the civic and religious ritual of Venice. This module explores how art and architectural projects advanced the devotional and charitable claims of Venetian confraternities and hospitals during the Early Modern period, focusing on the role played by these institutions in urban life and in perpetuating the 'myth of Venice'.</p>				
Programme module type:	Optional for Art History			
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			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: Coursework = 70%, Written Examination = 30%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr L Moretti			
Lecturer(s)/Tutor(s):	Dr L Moretti			

AH4172 Manuscript Illumination in Western Europe				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	9.00 am - 11.00 am Wed and either 10.00 am, 11.00 am or 12.00 noon Thu - TBC			
<p>This module considers the medieval manuscript from the fourth through the sixteenth centuries, with an emphasis on the illumination of the book. The subject will be bookended by two innovations, the development of the codex in favour of the roll in the Early Christian period, and the move from manuscript to print in the fifteenth and early sixteenth centuries. This course will not present an exhaustive survey of all manuscripts made in Western Europe, but will concentrate on certain themes: the physical construction of the manuscript; early Bible imagery; Insular decoration; scientific manuscripts; women as readers; and the interpretation of marginal imagery.</p>				
Programme module type:	Optional for Art History			
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: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr K Rudy			
Lecturer(s)/Tutor(s):	Dr K Rudy			

AH4173 Architecture and its Image. From Brunelleschi to Palladio			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2016/7		
Planned timetable:	9.00 am Mon and 9.00 am Tue (lectures) and either 10.00 am Mon or 10.00 am Tue (seminars) - TBC		
<p>The module explores the different ways in which architecture was represented during the Italian Renaissance, looking at some of the finest buildings ever created by some of the most innovative architects, which influenced European and American architecture for centuries. Starting with some well-known representations of imaginary buildings, or 'ideal architecture', we will consider depictions of temporary structures and architectural projects in medals and bas-relief, as well as how architecture was illustrated in sketches, models, workshop drawings, paintings, maps, and described in texts. The core of the module will be a study of actual buildings in relation to their simulacra. Artists covered will include Filippo Brunelleschi, Leon Battista Alberti, Andrea Mantegna, Piero della Francesca, Vittore Carpaccio, Jacopo Bellini, Donato Bramante, Raphael, Baldassarre Peruzzi, Sebastiano Serlio, Giulio Romano, Michelangelo, Jacopo Sansovino, Andrea Palladio and others.</p>			
Programme module type:	Optional for Art History		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lecture and 1 x 1-hour seminar		
	Scheduled learning: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%		
	As used by St Andrews: Coursework = 70%, Written Examination = 30%		
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module Co-ordinator:	Dr L Moretti		
Lecturer(s)/Tutor(s):	Dr L Moretti		

Art History - Honours Level - 2015/6 - October 2015

AH4175 Luxury Goods in the Middle Ages			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2016/7		
Planned timetable:	2.00 pm - 4.00 pm Thu (lecture) and either 12 noon or 1.00 pm Fri (seminar) - TBC		
<p>In the wake of the Black Death and the upheaval it caused, a new social order formed. Seaports in Italy, France, the Netherlands, and Britain flourished as merchants began trading in luxury goods. In doing so, they developed global markets, and they helped to stimulate a new economy based on trade rather than birthright. Although the courts of Europe had always commissioned great works of art and the accoutrements of a rich life, the nouveaux riches of towns such as Paris and Bruges, many of whom were involved in this new economy as traders, began consuming exotic goods and works of art.</p> <p>This module considers the economic background to sweeping changes in the late middle ages; to a new distribution of wealth; and to the development new trade routes that brought raw materials and finished luxury items from Asia, Africa, the Baltic, and beyond. We will consider many of what have been called 'minor arts', including automata and mechanical marvels developed in late medieval courts, as well as many surviving paintings commissioned by the nouveaux riches, which often depict the kinds of consumer goods they were also purchasing. We will examine the propositions that images both constructed and reflected identity, and that they both revealed and stimulated a desire for exotic products. While some of our readings will address Italy, we will focus attention on France, the Netherlands, and the British Isles.</p>			
Programme module type:	Optional for Art History		
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: 65 hours	Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module Co-ordinator:	Dr K Rudy		
Lecturer(s)/Tutor(s):	Dr K Rudy		

AH4205 Byzantium, 330 - 1453: Art, Religion and Imperial Power			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Planned timetable:	9.00 am – 11.00 am Mon (lecture) and either 9.00 am or 10.00 am Tues (seminar)		
<p>This module explores the vibrant visual culture of the Byzantine Empire from the founding of Constantinople in 330 AD to the fifteenth century when the imperial capital succumbed to the might of the Ottoman Turks. It is an exciting period which sees the formation of a distinct Christian art and architecture drawing upon the religious traditions of Judaism and pagan Rome on one hand, and that of imperial power on the other. We will examine a wide range of media (mosaics, frescoes, icons, ivories and luxury objects) in order to gain a rounded view of the art of the Byzantine Empire and we will consider the function of images and objects in specific historical contexts. We will explore the grandeur of Hagia Sophia in Istanbul, the mosaics in Constantinople, Ravenna and San Marco in Venice, the extraordinary skills of ivory workers, enamellists and illuminators of manuscripts, and we will relate these treasures to the social, cultural and religious dimensions of this dynamic culture.</p> <p>Particular emphasis will be placed on the theory and function of icons or holy images, the use of art to project imperial ideology, the relationship between art and ritual and the appropriation of Byzantine forms and iconography for ideological purposes outside the empire.</p>			
Programme module type:	Optional for Art History		
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: 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:	1 x Written Assignment to be agreed by the Board of Examiners		
Module Co-ordinator:	Dr L Kouneni		
Lecturer(s)/Tutor(s):	Dr L Kouneni		

Art History - Honours Level - 2015/6 - October 2015

AH4207 Receptions of Venetian Painting 1600 - 1800				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	3.00 - 5.00 pm Thu (lecture) and either 12.00 noon or 2.00 pm Fri (seminar) - TBC			
	<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 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr E van Kessel			
Lecturer(s)/Tutor(s):	Dr E van Kessel			

AH4208 The Portrait in Western Art				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	9.00 am - 11.00 am Thu (lecture) and either 3.00 pm or 4.00 pm Thu (seminar) - TBC			
	<p>Studying portraiture means studying representations of human faces. Most of the time, these are faces of people who lived long ago, and their portraits give us access to the way they looked, as well as the way they wanted to represent themselves to society. Yet portraits are also often highly complex constructions designed by major artists; as Leonardo had it, "every painter paints himself". So what exactly is it that a portrait portrays? Why did people commission their portraits, and what were they used for? What knowledge did people bring to looking at portraits? What did it mean for an artist to paint or sculpt a 'true likeness'? With a focus on the early modern period, yet including some excursions to both earlier and later periods, this module will address the above questions and more, approaching portraiture from a wide range of perspectives as well as focusing on some of the major practitioners and commissioners of the genre.</p>			
Programme module type:	Optional 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: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr E van Kessel			
Lecturer(s)/Tutor(s):	Dr E van Kessel			

AH4211 Islam and the Arts				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 pm or 4.00 pm Fri (seminars)			
	<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: 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:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Prof R Hillenbrand			
Lecturer(s)/Tutor(s):	Prof R Hillenbrand			

AH4212 Cultures of Collection and Display ca. 1851 to the Present Day				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	9.00 am - 11.00 am Thu (lecture) and either 1.00 pm or 3.00 pm Thu (seminar)			
	<p>This module focuses on the collection and display of art from the mid-nineteenth century to the present day. Following an introduction to the museum from Early Modern cabinets of curiosities to the rise of the public museum, topics will include exhibiting cultures at World's Fairs, the history and theory of the modern art museum, private collectors and their agendas, artists' interventions into gallery spaces, museums and globalization, and the display of art in alternative spaces. Famous collectors such as the Rockerfellers, Alfred Barnes, Peggy Guggenheim, and Charles Saatchi will be considered, and questions to be asked include: What has been the relationship between display and the history of modern art? What role have collectors played in the international art market? How should "primitive" art and artefacts be collected and displayed? What major ethical issues face art museums today? The module will be delivered through a combination of formal lectures, seminars, and group visits to galleries and exhibitions. Students are expected to frequent and critique exhibitions as part of their learning, and to maintain a learning journal.</p>			
Programme module type:	Optional for Art History			
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: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr K Brown			
Lecturer(s)/Tutor(s):	Dr K Brown			

Art History - Honours Level - 2015/6 - October 2015

AH4213 Dada and Surrealism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	11.00 am - 1.00 pm Mon (lecture) and either 9.00 am or 10.00 am Wed (seminar) - TBC			
<p>This module offers a broad survey of Dada and Surrealism, the two hugely influential international art movements of the interwar years (1916-1939). Emphasising the important links between the movements, it also examines essential differences through analysis of their philosophical, ideological and political positions. Key figures such as Duchamp, Arp, Picabia, Tzara, Hausmann, Breton, Ernst, Masson, Miro, Dalí, Man Ray, Oppenheim and Buñuel will be examined in some detail. A range of Dadaist and Surrealist practices will be considered, from literary texts to 'found' objects, ready-mades, performance, automatism in writing and painting, collage, film, photography and the 'dream' painting. This will provide the starting point for wider critical reflection on thematic issues including 'anti-art', cultural politics, psychoanalysis, the machine and gender. The module will be delivered through a combination of formal lectures and smaller group seminars. It will incorporate a class trip to Edinburgh to study the special collections of the Dean Gallery and Heath Fine Art's Phenotype Genotype (PhG) exhibition in Summerhall.</p>				
Programme module type:	Optional for Art History			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Anti-requisite(s):	AH4087			
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: 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 Co-ordinator:	Dr S Kallestrup			
Lecturer(s)/Tutor(s):	Dr S Kallestrup			

AH4214 Body / Politics: Performance Art Since 1960				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	3.00 pm – 5.00 pm Tue (lecture), 9.00 am or 11.00 am Thu (seminar)			
<p>This module considers the centrality of body politics within the emergence of performance art from the 1960s to the present, exploring how a range of practitioners from North America, Latin America and Europe have addressed the issues of gender, labour, protest, emigration, conflict, participation, spectacle and institutionalisation in their work. We will address the socio-cultural and political motivations that fuelled these artists' treatment of the body and the understanding of group space and collaboration elaborated by their work, from Cold War conflicts and US imperialism, to Civil Rights protests, student activism, the advent of feminism, globalization and experiences of exile and migration.</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 12 weeks), fieldtrip - 4 hours			
	Scheduled learning: 58 hours		Guided independent study: 242 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr C Spencer			
Lecturer(s)/Tutor(s):	Dr C Spencer			

AH4215 Contemporary Art and the Ethics of Fieldwork				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	3.00 pm - 5.00 pm Tue (lecture), and either 9.00 am or 11.00 am Thu (seminar) - TBC			
	<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 10 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 4 hours			
	Scheduled learning: 56 hours		Guided independent study: 244 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr C Spencer			
Lecturer(s)/Tutor(s):	Dr C Spencer			

AH4230 Approaches to Art History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 12.30 pm Mon (lecture) and either 3.30 pm - 5.00 pm Mon or 11.00 am - 12.30 pm Wed (seminar)			
	<p>This 30-credit module provides an introduction to the most significant critical approaches employed in Art History. It is designed to encourage students to consider new ways in which they might think about art, society and culture. Themes range from aesthetics, semiotics, psychoanalysis, feminism and phenomenology, to connoisseurship and iconography.</p>			
Programme module type:	Compulsory for Single Honours Art History. Optional for Joint Honours Art History.			
Pre-requisite(s):	AH2001 and AH2002 - with passes at grade 11 or better in both.			
Anti-requisite(s):	AH3130			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour lecture, 1 x 1.5-hour seminar (x 11 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr S Kallestrup and Dr C Spencer			
Lecturer(s)/Tutor(s):	Dr S Kallestrup and Dr C Spencer			

School of Biology

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.

Biology (BL) modules

BL3000 Field Course			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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, 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/with Psychology, Biology and Geography, Evolutionary Biology, Sustainable Development.		
Pre-requisite(s):	Normally BL2105 or BL2106	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 Co-ordinator:	Prof D Paterson		
Lecturer(s)/Tutor(s):	Prof D Paterson, Dr A Blight, Dr R Aspden, Dr Shuker, Dr J Graves, Dr S Healy		

Biology - Honours Level - 2015/6 - August 2015

BL3301 Protein Structure and Function			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module builds on the material covered in BL1201 and BL2104 to provide an understanding of more advanced aspects of protein structure and enzymology. The module begins by considering the protein-folding problem. The energetics of protein folding and the dependence of structure on sequence are examined. Protein folding diseases like spongiform encephalopathies are used as examples to highlight the significance of protein folding. The molecular basis of prion diseases is discussed in detail. The second part of the module focuses on the mechanisms of enzymes. This in turn leads into the phenomena of allosteric regulation, signalling cascades and transporter systems and is followed by a consideration of enzymes as pharmacological targets. The third part of the module introduces the major techniques for protein structure determination that are at the heart of modern biochemistry, molecular biology and drug discovery. Strategies for obtaining three-dimensional images of macromolecules by electron microscopy, X-ray crystallography and nuclear magnetic resonance are discussed. The laboratory course associated with this module introduces the fundamentals of safe laboratory practice. It provides grounding in the basic laboratory techniques, including associated calculations, as well as those associated with the study of proteins and enzymes.</p>			
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology. Optional for Cell Biology, Behavioural Biology, Biology, Neuroscience, and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	BL2101 or BL2104		
Required for:	BL4212, BL4215, BL4223		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 3 x 6-hour practicals, split over several days, during the semester.		
	Scheduled learning: 51 hours	Guided independent study: 149 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 83%, Practical Examinations = 0%, Coursework = 17%		
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%		
Re-Assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module Co-ordinator:	Dr U Schwarz-Linek		
Lecturer(s)/Tutor(s):	Dr U Schwarz-Linek, Dr J Nairn, Prof T Smith, Dr T Gloster and Dr R Guimaraes da Silva		

BL3302 Gene Regulation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lectures: 10.00 noon Mon, Tue and Wed Practicals: to be arranged.			
<p>This module builds on material covered in BL1201 Molecular Biology and BL2104 Biochemistry and Molecular Biology. It first considers the structure of genes and the composition of genomes and then examines genetic activity in eukaryotes in relation to nuclear organisation, chromatin structure and epigenetic mechanisms. Regulation of expression at the levels of gene transcription, RNA processing, RNA stability and translation are next covered in detail, drawing particular attention to the nature of protein-nucleic acid interactions. Specific control mechanisms in different prokaryotic and eukaryotic systems, induced by environmental, cell cycle, and metabolic signals are highlighted.</p>				
Programme module type:	Compulsory for Biochemistry, Cell Biology, Molecular Biology. Optional for Behavioural Biology, Biology, Evolutionary Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2104			
Required for:	BL4223, BL5421			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 3 x 16-hour practicals, split over several days, during the semester.			
	Scheduled learning: 81 hours		Guided independent study: 119 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 Co-ordinator:	Dr S MacNeill			
Lecturer(s)/Tutor(s):	Dr P Coote, Dr H Ferreira, Dr S MacNeill, Dr J Sleeman, Prof M Ryan, Prof M White			

Biology - Honours Level - 2015/6 - August 2015

BL3303 Membranes and Cell Communication			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module deals with the structural and functional organisation of biological membranes. The dynamic molecular components of biological membranes are studied by investigating the mechanisms involved in the control of membrane fluidity, and the biogenesis of new molecular components of the membrane. The central role that biological membranes play in the regulation of the movement of molecules between different extracellular, intracellular and transcellular compartments is also considered. The process of molecular transport is studied at both a theoretical and practical level. The interaction between the structural and functional organisation of the cell membrane is highlighted by studying the specialisation seen in the major transporting epithelial tissues. Topics covered include: (i) structural and kinetic analysis of ligand-receptor interactions; (ii) GTP-binding proteins and the generation of intracellular second messengers: cyclic AMP, cyclic GMP, diacyl glycerol and inositol triphosphate; (iii) the activation of receptor and intracellular protein kinases: serine/threonine and tyrosine kinases; (iv) de-sensitisation of signal responses and receptor 'cross-talk'; (v) direct and indirect activation of plasma membrane ion channels. The practical component includes experiments to illustrate methods used to elucidate signalling pathways as well as providing training in laboratory and transferable skills.</p>			
Programme module type:	Compulsory for Cell Biology. Optional for Biochemistry, Molecular Biology Biology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	Normally BL2101		
Required for:	BL4224, 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 Co-ordinator:	Dr M Bischoff		
Lecturer(s)/Tutor(s):	Dr R Ramsay, Dr G Prescott, Dr M Bischoff, Prof T Smith, Prof F Gunn-Moore, Prof L Torrance, Dr J Tilsner		

BL3307 Evolution				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2105 or BL2106			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 1 x 2-hour and 1 x 3-hour practical during the semester.			
	Scheduled learning: 38 hours		Guided independent study: 162 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 Co-ordinator:	Prof T Meagher			
Lecturer(s)/Tutor(s):	Prof T Meagher, Dr D Barker, Dr N Bailey, Prof M Ritchie, Dr M Webster			

Biology - Honours Level - 2015/6 - August 2015

BL3308 Aquatic Ecology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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. Optional for Behavioural Biology, Ecology and Conservation, Biology, Biology and Geology, Evolutionary Biology, Sustainable Development, Zoology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	Normally BL2105 or BL2106		
Co-requisite(s):	BL3000	Required for:	BL4301
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 1 x 3-day residential field course		
	Scheduled learning: 53 hours	Guided independent study: 147 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 14%, Coursework = 20%		
	As used by St Andrews: 3-hour Written Examinations = 66%, Coursework = 34%		
Re-Assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module Co-ordinator:	Dr I Matthews		
Lecturer(s)/Tutor(s):	Dr I Matthews, Prof C Todd, Dr A Blight		

BL3309 Ecosystems and Conservation			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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:	Compulsory for Ecology and Conservation, Marine Biology, and Behavioural Biology. Optional for Biology, Biology and Geology, Evolutionary Biology, Sustainable Development Zoology and all Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	Normally BL2105 or SD2001		
Co-requisite(s):	BL3000	Required for:	BL4254, BL4266, BL4268
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Prof W Cresswell		
Lecturer(s)/Tutor(s):	Prof W Cresswell, Dr S Northridge, Dr I Matthews, Prof T Meagher, Dr A Blight, Dr V Dietrich-Bischoff		

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BL3310 Bioenergetics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.			
<p>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.</p>				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science. Optional for Molecular Biology Cell Biology Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2104			
Required for:	BL4222			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr J Nairn			
Lecturer(s)/Tutor(s):	Dr J Nairn, Dr R Ramsay, Prof P Heathcote, Dr R Guimaraes da Silva, Dr G Prescott, Prof F Gunn-Moore, Dr J Lucocq			

BL3311 Infection and Disease				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.			
This module has lectures in three component areas: parasite infections, viral disease, and pathogenicity of common bacterial infections, and will include consideration of host defences and effective treatment. In all three component areas the emphasis will be on understanding at the molecular level.				
Programme module type:	Compulsory for Molecular Biology. Optional for Biochemistry, Cell Biology, Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2101 and BL2104			
Required for:	BL4211, BL4213			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Dr P Coote, Prof T Smith, Dr D Jackson, Prof M Ryan, Dr C Adamson, Dr P Kerry, Dr R Randall			

BL3315 Developmental Biology				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.			
This module deals with the fascinating and rapidly changing field of Developmental Biology. It examines how an organism develops from an egg to an adult (including instances of metamorphosis), as well as how lost or damaged body parts can be regenerated. Also the interactions between development and ecology and evolution will be considered. There will be a focus on some of the typical model species used in developmental biology, including fruit flies, nematodes, mice and frogs, but this will be expanded to include other valuable comparative models, such as sea squirts, annelids, cnidarians and flatworms. The course will encompass multiple biological levels, from molecules, through cells and embryos, to the environment and the organism's evolutionary history. As such this module is of wide relevance to a range of other biological disciplines.				
Programme module type:	Optional for Neuroscience, Cell Biology, Evolutionary Biology, Marine Biology, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2101 or BL2102			
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 Co-ordinator:	Dr I Somorjai			
Lecturer(s)/Tutor(s):	Dr A Ojanguren, Dr G Miles, Dr I Somorjai, Prof C Todd			

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BL3316 Animal Plant Interactions			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module concerns the coevolution of plants and animals, including the ecological, behavioural and physiological aspects of their interactions. Pollination biology and the constraints on participating plants and animals are dealt with in depth, including applied aspects of crop pollination, and this is followed by a review of seed dispersal. Then patterns of herbivory by insects, vertebrates and other animals are considered, illustrating the interactions of plant physical and chemical defences and herbivores' reciprocal adaptations from feeding specialisations and host plant selection through to detoxification systems and life history adaptations. Interactions with third parties are also explained, especially plant-fungus-insect systems. There is an introduction to other tritrophic interactions (whereby plants can recruit herbivores' enemies as part of their defences, or recruit ants as biotic plant guards), to insects as plant pests, and to integrated and sustainable approaches to control measures and plant protection.</p>			
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Evolutionary Biology, Sustainable Development, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	Normally BL2102 or BL2106		
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 Co-ordinator:	Prof P Willmer		
Lecturer(s)/Tutor(s):	Prof P Willmer, Prof G Ruxton, Prof S Hubbard, Dr A Karley, Dr J Wishart, Dr S Healy, Dr G Ballantyne		

BL3318 Biology of Marine Organisms				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lectures: 12 noon Mon, Tue and Wed Practicals: to be arranged.			
<p>This module will include lectures on the range of microbial and metazoan organisms and ecological systems in the marine environment. The coverage will range from bacteria, to algae, invertebrates and vertebrates (fish, birds, reptiles and mammals). The biology of marine organisms is considered in the context of both adaptations at the level of the individual and its expression in terms of large-scale latitudinal and depth-related variations in productivity and food web structure. Examples from the poles to the tropics and from shallow water to the deep ocean will be included. Practicals will be field- and laboratory-based and will provide an experimental introduction to both ecological and physiological problems in marine biology.</p>				
Programme module type:	Compulsory for Behavioural Biology, Ecology and Conservation, Marine Biology. Optional for Evolutionary Biology, Sustainable Development, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL2102 or BL2105			
Required for:	BL4257, BL4259, BL4260, BL4301: (BL2105, BL3308, BL3318 or equivalent preferred but not essential)			
Learning and teaching methods and delivery:	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.			
	Scheduled learning: 40 hours		Guided independent study: 160 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 Co-ordinator:	Dr V Smith			
Lecturer(s)/Tutor(s):	Dr V Smith, Prof C Todd, Prof A Brierley, Prof P Hammond, Dr A Onjanguren, Dr L Rendell, Dr C Smith, Dr A Blight, Prof P Tyack, Dr L Boehme, Dr B McConnell, Dr D Thompson			

Biology - Honours Level - 2015/6 - August 2015

BL3319 Animal Behaviour: A Quantitative Approach			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	Lectures: 9.00 am am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module is designed to provide a broad and multifaceted perspective on animal behaviour, emphasising contemporary theoretical, mathematical and statistical approaches to the discipline. Nobel-Prize-winning ethologist, Niko Tinbergen, pointed out that to understand behaviour fully researchers had to answer four types of questions, about its causation, function, development and evolution. All four areas are covered in the course, which includes lectures on the genetic, neural, physiological and experiential (i.e. learning) influences on behaviour; behavioural development; foraging; sexual behaviour, sexual selection and mate choice; communication, cooperation and culture. The course contains extensive material of a formal theoretical nature, and emphasises quantitative skills throughout. Students will be introduced to new mathematical and statistical approaches within the field.</p>			
Programme module type:	Compulsory for Ecology and Conservation and Behavioural Biology. Optional for Evolutionary Biology, Marine Biology, Zoology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes.		
Pre-requisite(s):	Normally BL2102		
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 Co-ordinator:	Dr M Webster		
Lecturer(s)/Tutor(s):	Dr M Webster Dr W Hoppitt, Dr M Webster, Dr L Rendell, Dr C Templeton, Dr S Healy, Prof M Ritchie, Prof V Janik, Dr W Heitler		

BL3320 Statistical and Quantitative Skills for Biologists				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	2 from BL2101 - BL2106			
Required for:	BL4273			
Learning and teaching methods and delivery:	Weekly contact: Varied weekly contact, but to include 1 full-day of lectures in Pre-sessional 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 Co-ordinator:	Prof W Cresswell			
Lecturer(s)/Tutor(s):	Prof W Cresswell, Dr G Ruxton, Dr A Smith, Dr D Barker, Dr R Ramsay, Dr J Nairn			

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BL3321 Advanced Critical Analysis Reading Party				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	1 week in summer vacation just prior to Orientation week			
An introductory residential module to Honours study for students studying Cell Biology, Neuroscience and Biology degrees held at the Burn between the resit diet and the start of semester 1. This module introduces students to the skill of critically analysing scientific literature and the methodology behind preparing research proposals. Students will work in groups to develop a grant proposal and present their ideas to a mock research grant panel. In response to detailed feedback students can improve their skills and finally submit an extended referees report on a real grant proposal.				
Programme module type:	Optional for Cell Biology, Evolutionary Biology, Neuroscience and all Biology Joint and Major/Minor degree programmes			
Pre-requisite(s):	2 from BL2101 - BL2106	Anti-requisite(s):	BL3000, BL3322	
Co-requisite(s):	Any 3000-level BL module			
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 Co-ordinator:	Dr J Sleeman			
Lecturer(s)/Tutor(s):	Prof I Johnston, Dr J Sleeman, Prof F Gunn-Moore, Dr G Miles			

BL3322 Basic Biochemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	1 week in summer vacation just prior to Orientation week			
This module aims to provide students with the basic skills for independent laboratory work and an opportunity to develop academic skills such as: the design of experiments; logistic planning; the gathering and assessment of data; and the presentation of results. In addition, transferable skills such as group work, working to deadlines, numeracy, critical reading of peer-reviewed literature, and presenting material (oral and written) will be developed. Importantly, the course will also be an opportunity to meet and work with others in the honours cohort. The practical element will emphasise techniques in protein biochemistry.				
Programme module type:	Optional for Biochemistry, Molecular Biology, Cell Biology, Biology			
Pre-requisite(s):	BL2101 and BL2104	Anti-requisite(s):	BL3000, BL3321	
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr R R Ramsay			
Lecturer(s)/Tutor(s):	Dr R R Ramsay, Dr C Adamson, Dr C Botting, Prof M White, Prof M Ryan, Prof R Randall			

BL3400 Tropical Research and Field Study				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	4 weeks in field locations in summer vacation.			
<p>The module allows is for students studying with Ooperation Wallacea in terrestrial and marine environments for a minimum of four weeks during the summer vacation. Students will gain experience in researching a variety of habitats and investigate the species in locations such as Indonesia, Honduras, South Africa and Mozambique. Students will be introduced to tropical ecology, sustainable development and conservation, fieldwork and novel research methods under the supervision of experts in those research areas. Students will be expected to maintain a journal of their field studies, in addition to being assessed on the application of field techniques and knowledge. The module will culminate in the production of a detailed research proposal.</p>				
Programme module type:	Optional for Behavioural Biology, Biology, Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology, and all Biology or Environmental Biology Joint or Major/Minor Degree programmes. Optional for Sustainable Development.			
Learning and teaching methods and delivery:	Weekly contact: Lectures, practicals and occasional seminars.			
	Scheduled learning: 160 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 10%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Resubmission of failed item(s) of Coursework			
Module Co-ordinator:	Dr C Peddie			

BL4200 Literature-based Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This project will involve an extensive literature review to investigate a defined hypothesis or problem within the field of biology, appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, and the production of a high-quality dissertation that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff who will guide and advise them in research activities throughout the academic year. The project will be written up in the form of a research dissertation.</p>				
Programme module type:	Either BL4200 or PS4050 compulsory for Biology and Psychology. BL4200 or BL4201 or PN4299 compulsory for Neuroscience. Optional for Biology Joint or Major/Minor Degree programmes.			
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 Co-ordinator:	Prof O Gaggiotti			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology			

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BL4201 Experimental Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This project will involve extensive laboratory or field research to investigate a defined problem within biology, appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Biology who will guide and advise them in research activities throughout the academic year.				
Programme module type:	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 Co-ordinator:	Prof O Gaggiotti			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology			

BL4210 Practical Skills for Molecular Biology and Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Practical skills are the core of research in biochemistry and molecular biology. This module is designed to prepare students for laboratory research projects in internationally competitive research. The module is designed to foster skills such as experimental design, core practical skills, data analysis and excellent record keeping. Each practical requires some prior theoretical familiarity. Emphasis is placed upon experimental design - notably anticipation of experimental outcomes and the choice of appropriate experimental controls. This planning phase is followed by execution of the experiment and analyses of the data.				
Programme module type:	Compulsory for Biochemistry, Biomolecular Science, Molecular Biology Optional for Cell Biology and all Biology Joint or Major/Minor Degree programmes.			
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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	Prof M White			

BL4211 Antimicrobials - Mode of Action and Resistance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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 11 weeks).			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	1-hour Written Examination = 50%, Existing Coursework = 50%			
Module Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Dr P Coote			

BL4212 How Enzymes Work				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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 Co-ordinator:	Dr R R Ramsay			
Lecturer(s)/Tutor(s):	Dr R R Ramsay, Prof M White			

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BL4213 Molecular Virology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 6 weeks), student debate			
	Scheduled learning: 15 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	Prof R Randall			
Lecturer(s)/Tutor(s):	Prof R Randall, Prof M Ryan, Dr D Jackson, Dr C Adamson, Dr J Tilsner			

BL4215 Bacterial Virulence Factors				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>In order to establish an infection in a host, pathogenic bacteria rely on mechanisms to adhere to host tissue, gain entry into cells, escape the host's immune response and spread and survive within or on the host. These processes are mediated by bacterial virulence factors, i.e. proteins and other bacterial products that utilise and subvert diverse host cellular processes for the benefit of the pathogen. In this module students will explore how structural biology has led to significant breakthroughs in understanding the molecular bases of some important bacterial infections.</p>				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology Biology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3301			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 4 weeks), 3 x 3-hour student talks			
	Scheduled learning: 17 hours		Guided independent study: 133 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 Co-ordinator:	Dr U Schwarz-Linek			
Lecturer(s)/Tutor(s):	Dr U Schwarz-Linek			

BL4216 Structure-based Drug Discovery				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 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 Co-ordinator:	Dr J Nairn			
Lecturer(s)/Tutor(s):	Dr T Gloster, Prof G Taylor, Dr J Nairn			

BL4222 Metabolic and Clinical Biochemistry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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: 2 x 1-hour seminars (x 10 weeks), 1 x 3-hour students presentations for 1 week			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 40%, Existing Coursework = 60%			
Module Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Dr G Prescott, Dr R Ramsay and invited NHS staff			

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BL4223 Chromosome Replication and Genome Stability				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Highly-efficiently chromosomal DNA replication is essential for all forms of cellular life on Earth and requires the complex interplay of a large range of protein factors in a temporally- and spatially-coordinated manner. In humans, defects in the replication process may lead to genetic disease or cancer. This module will summarise current knowledge of the enzymes and mechanisms of chromosomal DNA replication in bacterial, archaeal and eukaryotic cells with particular emphasis on exploring the diverse range of experimental systems and techniques used in the laboratory to probe the structure, function and regulation of the replication apparatus. Similarities and differences between cellular and viral DNA replication strategies will be explored and diverse aspects of the evolution of the replication machinery highlighted.				
Programme module type:	Optional for Biochemistry, Biomolecular Science, Cell Biology, Molecular Biology, and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	Normally BL3301 and BL3302			
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 = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 40%, Existing Coursework = 60%			
Module Co-ordinator:	Dr S A MacNeill			
Lecturer(s)/Tutor(s):	Dr S A MacNeill			

BL4224 Molecular Mechanisms of Membrane Trafficking				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Membrane trafficking mediates the transport of substances between different cellular organelles and the secretion of substances from cells. As such, regulation of membrane trafficking is applicable to all cell types, but especially to specialised secretory cells such as neurons, which secrete neurotransmitters and pancreatic beta-cells which secrete insulin. This module will consider how molecules control the movement of substances through the secretory pathway, but will focus on how cells regulate the release of contents. Within the module you will look at the proteins involved, the different experiments used to study the process and how model organisms are enhancing our understanding.				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Neuroscience and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL3303			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr G Prescott			
Lecturer(s)/Tutor(s):	Dr G Prescott, Dr J Tilsner			

BL4232 Neural Mechanisms of Predatory and Avoidance Behaviours				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>Predators and their prey are locked in an evolutionary arms race which continuously refines and improves the abilities of predators to locate and capture prey, and of prey to detect and evade predators. This strong selective pressure has produced some spectacular adaptations in both the nervous systems and the overall anatomy of the animals concerned. This, combined with the usually unambiguous motivation of the animals involved in predator-prey interactions (eat or starve, escape or be eaten) has made such adaptations favoured targets for study by neuroscientists, behavioural scientists, and biomechanicists. Students on this module will undertake a series of guided case studies researching the primary literature, and the module will also include some hands-on laboratory work. The aim is both to uncover some general principles of neural and biomechanical organisation, and also to reveal the variety and ingenuity with which evolution has found different solutions to shared problems.</p>				
Programme module type:	Optional for Behavioural Biology, Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	PN3313			
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 = 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 Co-ordinator:	Dr W J Heitler			
Lecturer(s)/Tutor(s):	Dr W Heitler, Prof K Sillar			

BL4248 Human Physiology of Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module will provide an understanding of diving physics and how pressure changes affect the physiology of the human diver. It will use both tutorials and self-study sessions to cover theoretical topics such as oxygen toxicity, nitrogen narcosis and the symptoms and treatment of decompression illness. Thermal considerations of diving, long-term effects and the physiology of technical mixed gas and rebreather diving will also be investigated.</p> <p>Students will also explore applied topics such as the management of diving casualties and the treatment of diving-associated illnesses. The final emphasis will be on how our understanding of diving physiology directs current practice in the UK on safe diving practices.</p>				
Programme module type:	Optional for 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: 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 = 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 Co-ordinator:	Dr C Peddie			
Lecturer(s)/Tutor(s):	Dr C Peddie, Dr G Prescott			

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BL4249 Scientific Diving			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	Full Time 2-3 weeks in March/April		
<p>This module will provide both theoretical and practical experience of the techniques used by scientific divers. The module is restricted to students who have an existing diving qualification (PADI Advanced Open Water Diver or BSAC Sports Diver or equivalent). Seminars during the field trip will cover diving safety, dive project planning, management, risk assessment and the theory behind underwater surveying techniques. Abroad, students will receive training in underwater marine identification, construction and deployment of underwater surveys and sampling techniques, gaining practical experience of recording, analysing and interpreting survey data. Then they conduct a mini-research project using suitable survey techniques and present their findings through a report and a presentation.</p>			
Programme module type:	Optional for Ecology and Conservation, Marine Biology, 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 Co-ordinator:	Dr C Peddie		
Lecturer(s)/Tutor(s):	Dr C Peddie, Dr S Whiten		

BL4251 Tropical Marine Biology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	To be arranged.		
<p>The goal of this module is to examine the ecological and biological principles underpinning the major tropical marine ecosystems. The module provides an understanding of the ecological processes that control tropical marine ecosystems, and considers the organisms that are characteristic of each. All the major tropical marine habitats will be considered, but with a focus on coral reef, seagrass and mangrove ecosystems. The module also tackles topical research areas on the subject through student-led seminars, which will vary depending on the latest scientific research and the specific interests of participants.</p> <p>On completion of the module, students will have an understanding of coral reef, mangrove and seagrass ecology. They will understand the biology and physiology of corals and be able to identify the major phyla associated with tropical marine ecosystems. The module will also provide an understanding of the threats to tropical marine habitats, current research trends on tropical marine systems, and the scientific approaches and techniques used tackle scientific questions relating to tropical marine biology.</p>			
Programme module type:	Optional for Ecology and Conservation, Evolutionary Biology, Marine Biology, Zoology and all Biology or Environmental Biology Joint or Major/Minor Degree programmes. 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 = 50%, Coursework = 50%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	Resubmission of failed item(s) of Coursework		
Module Co-ordinator:	Dr C Smith		
Lecturer(s)/Tutor(s):	Dr C Smith, Dr R Spence		

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BL4254 Fisheries Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module will provide an introduction to the utilisation of fish stocks in a sustainable way. It will focus on how the status of these stocks can be assessed, the problems associated with determining catch limits, and how advice from fisheries scientists is communicated to managers. There will be a mixture of dedicated lectures (including talks from outside experts), student-led seminars, tutorials and practical computer sessions.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, 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 Co-ordinator:	Dr C Paxton			
Lecturer(s)/Tutor(s):	Dr C Paxton			

BL4255 Marine and Environmental Biotechnology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module will examine the diversity of useful natural products from the sea, consider the ways in which genomic and other approaches are being used to bioprospect for new substances (especially from micro-organisms), learn how genomic approaches are overcoming the problem of unculturability of many marine prokaryotes to find such compounds, and explore some of the more unusual applications of materials derived from marine invertebrates. It will also consider how marine biotechnology is contributing to improved disease control in aquaculture, how it can help the 'greening' of more conventional 'dirty' industries and may enable us to meet our future energy needs via renewable biofuels. The societal, ethical and environmental issues associated with the development of environmental biotechnology are also considered.				
Programme module type:	Optional for Biochemistry, 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 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: Written Examination = 40% (open book essay), Practical Examinations = 30%, Coursework = 30%			
Re-Assessment pattern:	Written Examination = 40%, Existing Coursework = 60%			
Module Co-ordinator:	Dr V J Smith			
Lecturer(s)/Tutor(s):	Dr V J Smith			

BL4256 Marine Bioacoustics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module will provide seminar- and practical-based instruction on sound propagation in the ocean, use of sound by marine mammals for communication, orientation, and foraging (as monitored by humans using techniques to record sound). It will also examine sound-based conflicts between humans and marine organisms.				
Programme module type:	Optional for Behavioural Biology, Marine Biology, Zoology and all Biology 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 Co-ordinator:	Prof P Tyack			
Lecturer(s)/Tutor(s):	Prof P Tyack, Prof V Janik			

BL4258 Foraging in Marine Mammals				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module will provide primarily seminar and practical-based analysis of the life-history requirements of foraging in marine mammals, geographical and physiological constraints on finding food, food and feeding with a focus on types of prey and adaptations by the prey, adaptations for marine mammals feeding in the marine environment, optimal foraging theory, and optimal diving theory. Initial lectures will focus on theoretical issues and description of methods to study foraging. Students will then conduct case-studies of marine-mammal foraging, which will be presented in a seminar format as a group. Some practical work will also be included.				
Programme module type:	Optional for Behavioural Biology, Ecology and Conservation, Marine Biology, 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 Co-ordinator:	Dr P Miller			
Lecturer(s)/Tutor(s):	Dr P Miller, Dr S Smout, Dr D Thompson			

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BL4259 Marine Mammals and Man				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Marine mammals interact with human activities in a variety of ways and are frequently the focus of more general concerns about the health and exploitation of marine ecosystems. This module explores the impact of these activities on individuals and populations of seals and cetaceans, and vice versa. Most marine mammals species are long-lived and slow reproducing and the impacts of unmanaged human activities can be severe; a number of species or populations are threatened as a result. The module explores how best to provide robust scientific advice to inform conservation and management at local, national and international level.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	BL3318			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Prof P S Hammond			
Lecturer(s)/Tutor(s):	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:	2016/7			
Planned timetable:	To be arranged.			
This module will provide primarily seminar-based instruction on the fundamentals of Biological Oceanography (BO). A few introductory lectures will focus on basic principles in BO and oceanography, including physical and geochemical principles as they apply to biological oceanography. Students will present seminars on particular focus areas within each lecture topic, based upon reading primary literature. BO is a broad field, so the module will provide an overview of the field with depth in a few chosen areas. At least one practical will be offered on the use of remote-sensing data for ocean observation, and we hope to develop a practical of zooplankton sampling. This module should coordinate especially well with marine acoustics and scientific diving.				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, Zoology and all Biology 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 Co-ordinator:	Dr P Miller			
Lecturer(s)/Tutor(s):	Dr P Miller			

BL4262 Physical Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module aims to give a broad overview of the concepts and fundamental achievements of physical oceanography. Physical oceanography is the study of physical conditions and physical processes within the ocean, especially the motions and physical properties of ocean waters. A series of lectures will be provided to assure that students have the broad background required to tackle primary literature in this field. Students will present seminars on particular focus areas within each lecture topic, based upon reading primary literature.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, 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 Co-ordinator:	Dr L Boehme			
Lecturer(s)/Tutor(s):	Dr L Boehme			

BL4263 The Question of Culture in Cetaceans				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr L Rendell			
Lecturer(s)/Tutor(s):	Dr L Rendell			

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BL4266 Conservation Research Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 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 Co-ordinator:	Prof W Cresswell			
Lecturer(s)/Tutor(s):	Prof W Cresswell			

BL4268 Conservation and Management of Biodiversity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module will focus on the scientific problems associated with the conservation and sustainable use of animals and plants, and on the way in which scientific advice on these issues is provided. Initial lectures will cover sustainable development and the precautionary principle; the causes of extinction; the economics of conservation; management of exploitation; and estimating species richness. After this student-led seminars will cover a range of more specialist issues of current concern. Practical work on population viability analysis, classifying populations using the IUCN criteria, and species richness estimation may be included.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, 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 = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Resubmission of failed item(s) of Coursework			
Module Co-ordinator:	Dr A Ojanguren			
Lecturer(s)/Tutor(s):	Dr A Ojanguren, Dr M Dornelas			

BL4270 Plant-environment Interactions				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 Co-ordinator:	Dr J Wishart			
Lecturer(s)/Tutor(s):	Dr J Wishart, Prof J Raven, Prof S Hubbard			

BL4273 Bioinformatics for Biologists				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module is about using computers to search and study protein and DNA sequences, and related data such as mRNA expression levels. Vast quantities of such data are publicly available, and, if viewed in the right way, can provide strong evidence concerning function, structure, and evolution of DNA, RNA, proteins and genes. Because of this, computational analysis has become a crucial component of modern biology, including biochemistry, molecular biology, ecology, evolutionary biology and biomedical research. With hundreds of genome sequences and vast quantities of expression data available, the approach has greater potential than ever before. This module will give an overview of the data, software and methods of analysis, and in-depth practical training in applying bioinformatics techniques to questions of biology and biomedical research. Case studies where researchers use genomes to ask questions about divergence, adaptation and speciation will be discussed. The emphasis of the module is not mathematical, but rather concerns data, the general features of methods, use of software, applications relevant to biology, and results. The module will involve use of computers and simple computer programming, for which training will be provided as part of the module.				
Programme module type:	Optional for Biochemistry, Cell Biology, Evolutionary Biology, Marine Biology, Molecular Biology, Zoology and all Biology Joint or Major/Minor Degree programmes			
Pre-requisite(s):	Normally BL3320			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour computer-based practical (x 8 weeks) plus 6 x 1-hour lectures plus 1 x 1-hour seminar			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module Co-ordinator:	Dr D Barker			
Lecturer(s)/Tutor(s):	Dr D Barker, Prof O Gaggiotti, Dr A Smith			

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BL4274 Evolutionary Developmental Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>Evolution of new morphologies involves changes to the development of organisms. The field of evolutionary developmental biology is thus becoming established as a major and essential component of any comprehensive understanding of evolutionary biology. This module aims to cover some of the main, current themes in evolutionary developmental biology. Since animal life evolved in the sea, much of what we can learn about the major events in animal evolution can be obtained from studying marine invertebrates. Consequently the examples covered in this module will tend to be drawn from these organisms.</p>				
Programme module type:	Optional for 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 11 weeks).			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Resubmission of failed item(s) of Coursework			
Module Co-ordinator:	Dr D Ferrier			
Lecturer(s)/Tutor(s):	Dr D Ferrier, Dr I Somorjai			

BL4275 Evolution in Action				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module will focus on recent developments relating to evolutionary biology, placing particular emphasis on research related to medical or societal application or public policy. Examples of topics to be covered include: emergent diseases, biodiversity policy, conservation management, biological impacts of climate change, and public understanding of science.</p>				
Programme module type:	Optional for 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 11 weeks) plus an additional 2 x 2-hour seminars.			
	Scheduled learning: 26 hours		Guided independent study: 124 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 Co-ordinator:	Prof T R Meagher			
Lecturer(s)/Tutor(s):	Prof T R Meagher			

BL4278 Biology of Dinosaurs and Other Extinct Vertebrates				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks).			
	Scheduled learning: 22 hours		Guided independent study: 128 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 Co-ordinator:	Prof G Ruxton			
Lecturer(s)/Tutor(s):	Prof G Ruxton			

BL4280 Evolution and Human Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks).			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module Co-ordinator:	Dr M Webster			
Lecturer(s)/Tutor(s):	Dr M Webster. Dr K Cross, Dr L Dean, Dr C Evans, Dr A Navarrete			

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BL4281 Animal Communication and Cognition				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks).			
	Scheduled learning: 22 hours		Guided independent study: 128 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 Co-ordinator:	Prof V Janik			
Lecturer(s)/Tutor(s):	Prof V Janik, Dr T Gotz			

BL4282 Biology and Behaviour of Social Insects				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Prof P Willmer			
Lecturer(s)/Tutor(s):	Prof P Willmer, Dr A Gardner, Dr G Ballantyne			

BL4284 Breeding Systems and Sexual Conflict				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Studies of mating systems in animals are primarily concerned with how animal societies are structured in relation to sexual behaviour. In plants, where many organisms do not have separate males and females, the term refers to the degree to which individuals are self-compatible or the amount of out-crossing that occurs. The effects of breeding system on sexual selection and sexual conflict, together with the costs of inbreeding and the evolution of mating systems, are central concerns of this module.				
Programme module type:	Optional for Behavioural Biology, Evolutionary Biology, 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 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Resubmission of failed item(s) of Coursework			
Module Co-ordinator:	Dr C Smith			
Lecturer(s)/Tutor(s):	Dr C Smith, Dr J Graves, Prof T R Meagher, Prof M Ritchie			

BL4285 Complex Systems in Animal Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr V A Smith			
Lecturer(s)/Tutor(s):	Dr V A Smith			

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BL4286 Advanced Topics in Evolution				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 11 weeks).			
	Scheduled learning: 22 hours		Guided independent study: 128 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 Co-ordinator:	Prof M Ritchie			
Lecturer(s)/Tutor(s):	Dr N Bailey, Prof M Ritchie			

BL4301 Polar Ecology: A field course in Antarctica				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	To be confirmed			
Planned timetable:	To be arranged.			
<p>This module will provide a theoretical and practical introduction to the ecology and key ecosystem components of Antarctica with emphasis on marine ecology, ecosystem functionality and conservation issues. Students will participate in a two-week vessel-based expedition to Antarctica during the austral summer (northern winter). This field trip involves traveling to southern Argentina, conducting at-sea surveys during transit to/from the Antarctic Peninsula, participating in shore-based activities (e.g. observations at penguin colonies, visit to active research station), and exploring Antarctic coastal waters from small boats and the ice-strengthened vessel. Through a series of lectures, student-lead seminars, workshops, on-board practicals and field excursions, students will gain appreciation of and insights into the diversity, complexity, scientific and management challenges of the Antarctic ecoregion.</p>				
Programme module type:	Optional for Ecology and Conservation, Marine Biology, 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 Co-ordinator:	Dr S Heinrich			
Lecturer(s)/Tutor(s):	Dr S Heinrich, Dr L Boehme			

BL4601 Research Project Development and Methodology				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to student 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.			
	Weekly contact: 1 tutorial each week for 5 weeks.			
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 Co-ordinator:	Dr J Nairn			
Lecturer(s)/Tutor(s):	Dr J Nairn, Dr G Prescott, Dr A Smith, Prof M Ryan, Dr U Schwarz-Linek			

BL4602 External Research Placement				
SCOTCAT Credits:	100	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 and MMarBiol degree programmes			
Required for:	BL5410			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module.			
	Weekly contact: External Placement			
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 Co-ordinator:	Dr P Coote			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology			

Biology - Honours Level - 2015/6 - August 2015

BL5420 Seeing is Believing - Microscopy and Image Analysis in Cell and Developmental Biology			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for the MBiochem. Optional for Biochemistry, Cell Biology and Molecular Biology BSc (Hons) Degree programmes.		
Pre-requisite(s):	BL3303		
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 = 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 Co-ordinator:	Dr M Bischoff		
Lecturer(s)/Tutor(s):	Dr M Bischoff, Prof F Gunn-Moore, Dr J Sleeman		

BL5421 Chromatin and Genome Stability			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr H Ferreira		
Lecturer(s)/Tutor(s):	Dr H Ferreira		

Biology - Honours Level - 2015/6 - August 2015

BL5410 Advanced Topics in Biomolecular Sciences				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	Weeks 1-3: 2 x 2-hour seminars per week, Weeks 3-11: 7 x 1.5-hour School of Biology seminars and discussion plus 2 x 1-hour tutorials over the 9-weeks			
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 Co-ordinator:	Dr J Tilsner (Semester 1) and Dr R Guimaraes da Silva (Semester 2)			
Lecturer(s)/Tutor(s):	Team taught			

BL5440 Major Review Paper in Evolutionary Biology				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr M Morrissey			
Lecturer(s)/Tutor(s):	Dr M Morrissey, Dr A Gardner, Prof O Gaggiotti			

BL5441 Animal Cognition				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 3-hour seminar (x 10 weeks), 3-hour lecture (x 1 week)			
	Scheduled learning: 33 hours		Guided independent study: 127 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 Co-ordinator:	Dr S Healy			
Lecturer(s)/Tutor(s):	Dr S Healy			

BL5499 Advanced Laboratory Research Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 Biochemistry 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 Co-ordinator:	Dr C Adamson			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Biology			

School of Chemistry

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.

Chemistry (CH) modules

CH3431 Chemistry Workshop				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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: 50 hours		Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%			
	As used by St Andrews: 5 x 1-hour Practical Examinations = 100%			
Re-Assessment pattern:	Oral Re-assessment = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	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, Dr C Cazin			

Chemistry - Honours Level - 2015/6 - August 2015

CH3441 Mini Chemistry Project				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am - 1.00 pm Mon - Fri for 4 weeks (Weeks 8 - 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: 4 hours x 5 days (Weeks 8 - 11)			
	Scheduled learning: 80 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: 30-minute Practical Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Dr M L Clarke			
Lecturer(s)/Tutor(s):	A selection of the Academic Staff			

CH3512 Organometallic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 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 Co-ordinator:	Prof P C J Kamer			
Lecturer(s)/Tutor(s):	Dr D Cordes, Prof P C J Kamer			

CH3513 Chemistry of Materials				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr P A Connor			
Lecturer(s)/Tutor(s):	Dr P A Connor, Dr R T Baker			

CH3514 Physical Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 5 - 7 weeks (Weeks 1-7) 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 Co-ordinator:	Dr B E Bode			
Lecturer(s)/Tutor(s):	Dr B E Bode, Dr E Zysman-Colman			

Chemistry - Honours Level - 2015/6 - August 2015

CH3521 Inorganic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 1 - 6)			
This module comprises practical experiments involving synthesis, characterisation and measurements in inorganic chemistry.				
Programme module type:	Compulsory for Chemistry, Chemistry and Geology, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement, Materials Chemistry, Materials Chemistry with External Placement. 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: Daily 3- or 4-hour morning practical classes (Weeks 1 - 6).			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Dr P Kilian			
Lecturer(s)/Tutor(s):	Dr P Kilian, Dr E Zysman-Colman, Dr F Laibe, Prof P Kamer			

CH3612 Synthetic Methodology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module will cover a wide range of synthetic methods and applications of the methods to the synthesis of complex molecules. Students will gain a deep understanding of the importance of methods involving sulfur, phosphorus, boron, silicon, organolithium and organozinc reagents. Students will also be introduced to modern methods of alkene, alkyne and biaryl synthesis using palladium and ruthenium catalysts. The use of the protecting groups in conjunction with these synthetic methods will also be covered.				
Programme module type:	Compulsory for Biomolecular Science, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement. Optional for Chemical Sciences, Chemistry with French, Chemistry with French and External Placement.			
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 Co-ordinator:	Prof N J Westwood			
Lecturer(s)/Tutor(s):	Prof N J Westwood, Dr M L Clarke			

CH3613 Carbohydrate and Nucleic Acid Chemistry			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr G J Florence		
Lecturer(s)/Tutor(s):	Dr G J Florence, Dr E R Kay		

Chemistry - Honours Level - 2015/6 - August 2015

CH3615 Mechanism in Organic Chemistry			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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):	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		
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 Co-ordinator:	Prof D Philp		
Lecturer(s)/Tutor(s):	Prof D Philp, Prof A D Smith		

CH3621 Organic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 1-5)			
Practical experiments involving synthesis, characterisation and measurements in organic chemistry.				
Programme module type:	Compulsory for Biomolecular Science, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement. Optional for Chemical Sciences, Chemistry and Mathematics, Chemistry with French, Chemistry with French and External Placement, Chemistry with Mathematics.			
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- or 4-hour morning practical classes over 5 weeks (Weeks 1-5).			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Dr M L Clarke			
Lecturer(s)/Tutor(s):	Dr M L Clarke, Dr I A Smellie			

CH3622 Organic Chemistry Laboratory (Materials)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am - 12.00 noon or 1.00 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- or 4-hour morning practical classes over 5 weeks (Weeks 1-5).			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Dr M L Clarke			
Lecturer(s)/Tutor(s):	Dr M L Clarke, Dr I A Smellie			

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CH3712 Quantum Theory of Atoms, Molecules and Solids				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module builds on 'Quantum Theory of Atoms, Molecules and Solids. Part I' given in CH2701. It provides an introduction to further, basic concepts of quantum mechanics that are an essential part of the description of the electronic structures of atoms, molecules and solids. While the module is mathematically based, the emphasis throughout is on the physical and chemical implications of the mathematical results and how this provides a coherent, quantitative framework for understanding the beauty and complexities of the electronic structure of atoms, molecules and solids.				
Programme module type:	Compulsory for Chemistry, Materials Chemistry, Chemistry with External Placement, Chemistry and Physics, Materials Chemistry with External Placement. 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: 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 Co-ordinator:	Dr G Haehner			
Lecturer(s)/Tutor(s):	Dr F D Morrison, Dr G Haehner			

CH3715 Introduction to Analysis of Materials				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Chemistry and Geology, Materials Chemistry, Materials Chemistry with External Placement. Optional for Chemical Sciences, Chemistry and Mathematics, 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 Co-ordinator:	Dr R T Baker			
Lecturer(s)/Tutor(s):	Dr R T Baker, Prof W Zhou			

CH3716 Quantitative Aspects of Medicinal Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
The aim of the module is to cover some of the quantitative aspects of Medicinal Chemistry and drug design. Initially some relevant fundamental thermodynamics will be discussed. The thermodynamics of the drug receptor interactions will then be covered along with other aspects of pharmacology. The pharmacokinetic phase of drug action will be described including the absorption, distribution, metabolism and elimination (ADME) of drugs. The use of computational chemistry in the modern drug design process will then be discussed, covering force field calculations, molecular docking, QSAR and virtual screening.				
Programme module type:	Compulsory for Biomolecular Science, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement. 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 Co-ordinator:	Dr T van Mourik			
Lecturer(s)/Tutor(s):	Dr T van Mourik, Dr F M Gray, Prof N J Westwood			

CH3717 Statistical Mechanics and Computational Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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)			
Required for:	CH5714	Anti-requisite(s):	CH3716	
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 Co-ordinator:	Dr T van Mourik			
Lecturer(s)/Tutor(s):	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:	2015/6			
Planned timetable:	9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 6-10)			
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 3- or 4-hour morning practical classes over 5 weeks (Weeks 6-10).			
	Scheduled learning: 90 hours		Guided independent study: 10 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Prof P A Wright			
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7			
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.			
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.			
	Weekly contact: Day-to-day supervision by company supervisor, liaising with member of School academic staff.			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-assessment available; requires year-long external work to complete coursework			
Module Co-ordinator:	Dr G Haehner			

CH4442 Chemistry Research Project				
SCOTCAT Credits:	50	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr T van Mourik and Dr R Schaub			

CH4444 Chemistry Research Project for Non-graduating Students (60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only for Non-graduating Students			
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. The project will be selected and supervised by a member of the academic staff.				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH4442, CH4445 - CH4449, ID4441, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 54 hours of their time on the project. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 36 hours are laboratory related.			
	Scheduled learning: 400 hours		Guided independent study: 200 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 Co-ordinator:	Dr T van Mourik and Dr R Schaub			

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CH4445 Chemistry Research Project for Non-graduating Students (90)				
SCOTCAT Credits:	90	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only for Non-graduating Students			
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. The project will be selected and supervised by a member of the academic staff.				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH4442, CH4444, CH4446 - CH4449, ID4441, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 40 hours per week of their time on the project. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 27 to 28 hours per week are laboratory related.			
	Scheduled learning: 600 hours		Guided independent study: 300 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: 2-hour Practical Examination = 20%, Coursework = 80%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Dr T van Mourik and Dr R Schaub			

CH4446 Chemistry Research Project for Non-graduating Students (120)				
SCOTCAT Credits:	120	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only for Non-graduating Students			
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. The project will be selected and supervised by a member of the academic staff.				
Programme module type:	Available only for Non-graduating Students			
Anti-requisite(s):	CH4442 - CH4445, CH4448, CH4449, ID4441, CH5441			
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 54 hours per week of their time on the project. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 36 hours per week are laboratory related.			
	Scheduled learning: 800 hours		Guided independent study: 400 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: 2-hour Practical Examination = 20%, Coursework = 80%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	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:	2015/6 & 2016/7			
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 Co-ordinator:	Dr T van Mourik and Dr R Schaub			

CH4449 Chemistry Research Project for Non-graduating Students (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to Non-graduating Students where there is a specific degree programme requirement. Permission to take this module is required from the Director of Teaching.			
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. The project will be selected and supervised by a member of the academic staff.				
Programme module type:	With permission, and only for Non-graduating Students			
Anti-requisite(s):	CH4442 - CH4448, CH5441, ID4441			
Learning and teaching methods and delivery:	Weekly contact: Students spend a minimum of 9 hours per week of their time on the project. This time includes practical work, literature study, reading and preparation of reports and presentation. Typically, 6 to 7 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 Oral Examination = 20%, Coursework = 80%			
Re-Assessment pattern:	No Re-Assessment available, requires lab attendance to complete coursework			
Module Co-ordinator:	Dr T van Mourik and Dr R Schaub			
Lecturer(s)/Tutor(s):	Teaching staff			

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CH4453 Chemistry Distance Learning (Materials Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 Materials Chemistry. It aims to build on students' fundamental knowledge of metals and ceramics.				
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 Co-ordinator:	Dr F M Gray			
Lecturer(s)/Tutor(s):	Dr F D Morrison, Dr R T Baker			

CH4454 Chemistry Distance Learning (Physical Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 CH4714 in a distance learning mode to students on the MChem one-year placement. See the module description for CH4714 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 CH2701 and at least one of CH2501, (CH2601 or CH2603)			
Co-requisite(s):	CH4441, CH4455 and (CH4456 or CH4453)	Anti-requisite(s):	CH4714, 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 Co-ordinator:	Dr F M Gray			
Lecturer(s)/Tutor(s):	Dr F M Gray, Prof M Buck			

CH4455 Chemistry Distance Learning (Inorganic Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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			
Co-requisite(s):	CH4441, CH4454 and (CH4456 or CH4453)	Anti-requisite(s):	CH4514, 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 Co-ordinator:	Dr F M Gray			
Lecturer(s)/Tutor(s):	Dr E Zysman-Colman, Dr B Bode			

CH4456 Chemistry Distance Learning (Organic Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr F M Gray			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr E Kay			

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CH4461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 9 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars			
	Scheduled learning: 21 hours		Guided independent study: 79 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	Oral Re-assessment = 100%			
Module Co-ordinator:	Dr R Schaub			
Lecturer(s)/Tutor(s):	all staff			

CH4514 Advanced Metal Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr B E Bode			
Lecturer(s)/Tutor(s):	Dr E Zysman-Colman, Dr B E Bode			

CH4515 Advanced Main Group Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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			
Anti-requisite(s):	CH5513			
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 Co-ordinator:	Dr P Kilian			
Lecturer(s)/Tutor(s):	Dr P Kilian			

CH4612 Blockbuster Pharmaceuticals				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
The module will discuss case studies from the most successful pharmaceutical products. How the compounds came to be discovered, what diseases they are targeting, how they work and how they are made and delivered to the market. Compounds that will feature are aspirin, penicillin, AZT, 5-fluorouracil, Zantac, viagra, β -blockers, prozac etc.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry. Optional for Biomolecular Science, Chemical Sciences, Chemistry and Mathematics, Chemistry MChem, Chemistry with French, Chemistry with Mathematics			
Pre-requisite(s):	Passes in CH2501 and at least one of (CH2601 or CH2603), CH2701			
Anti-requisite(s):	CH5615			
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 Co-ordinator:	Prof D O'Hagan			
Lecturer(s)/Tutor(s):	Prof D O'Hagan and visiting industrial lecturers			

Chemistry - Honours Level - 2015/6 - August 2015

CH4614 Heterocyclic and Pericyclic Chemistry			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 1
Academic year:	2015/6		
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 Co-ordinator:	Dr R A Aitken		
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr E R Kay		

CH4615 Fragrance, Food and Colour Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr R J M Goss, Prof T K Smith			

CH4713 Interactions of Light with Matter				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module describes the fascinating properties of matter relevant to their interaction with electromagnetic radiation. Absorption, transmission, reflection and diffraction of light across the electromagnetic spectrum is covered. The properties of matter, particularly in the gas and solid phases, which are important for the emission, modification and transport of light are discussed at the atomic and molecular level.</p>				
Programme module type:	Compulsory for Materials Chemistry, Chemistry and Physics. Optional for Chemical Sciences, Chemistry, Chemistry and Mathematics, Chemistry with French, Chemistry with Mathematics.			
Pre-requisite(s):	Passes in CH2701 and at least one of CH2501, (CH2601 or CH2603)			
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 Co-ordinator:	Dr R Schaub			
Lecturer(s)/Tutor(s):	Prof S E M Ashbrook, Dr R Schaub			

Chemistry - Honours Level - 2015/6 - August 2015

CH4714 Conductivity, Electrochemical Processes and the Structure of Polymers				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module covers electrolyte solutions and ionic conductivity, equilibrium electrochemistry and electrode processes, and, the synthesis, classification and structure of polymers.				
Programme module type:	Compulsory for Chemical Sciences, Chemistry, Chemistry with French, Materials Chemistry, Chemistry with Medicinal Chemistry, Chemistry and Physics. Optional for Chemistry and Geology, Chemistry and Mathematics, Chemistry with Mathematics, Materials Chemistry.			
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):	CH4454			
Learning and teaching methods and delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-Assessment pattern:	Oral Re-assessment = 100%			
Module Co-ordinator:	Dr F M Gray			
Lecturer(s)/Tutor(s):	Dr F M Gray, Prof M Buck			

CH4715 Functional Materials and Electrons in Solids				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr F D Morrison			
Lecturer(s)/Tutor(s):	Dr F D Morrison, Prof M Buck			

CH5441 Research Project			
SCOTCAT Credits:	50	SCQF Level 11	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr T van Mourik and Dr R Schaub		
Lecturer(s)/Tutor(s):	all staff		

Chemistry - Honours Level - 2015/6 - August 2015

CH5461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. Students will be expected to read externally on related topics. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. The problems will apply the knowledge gained in Level 2000 Chemistry modules.</p>				
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 9 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars.			
	Scheduled learning: 21 hours		Guided independent study: 79 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	Oral Re-assessment = 100%			
Module Co-ordinator:	Dr R Schaub			
Lecturer(s)/Tutor(s):	all staff			

CH5511 Homogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 Co-ordinator:	Prof P C J Kamer			
Lecturer(s)/Tutor(s):	Prof P C J Kamer, Prof R P Tooze			

CH5516 Advanced Ligand Design				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Phosphines and carbenes represent the most common ligands used in many applications of metal complexes. Recent developments have allowed very precise design of properties of complexes as a result of new ligand design. In this module design principles will be addressed and applications of these important complexes in industry will be discussed.				
Programme module type:	Optional for Chemical Sciences, Chemistry, Chemistry with French 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 Co-ordinator:	Dr C S J Cazin			
Lecturer(s)/Tutor(s):	Prof P C J Kamer, Dr C S J Cazin			

CH5517 Advanced Molecular Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module involves three sections: advanced discussion of the properties of selected main group compounds, spectroscopy and magnetism of transition metal complexes, and molecular modeling applied to transition metal complexes.				
Programme module type:	Optional for Chemical Sciences, Chemistry, Chemistry with French 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 Co-ordinator:	Dr E Zysman-Colman			
Lecturer(s)/Tutor(s):	Dr E Zysman-Colman, Dr B Bode			

Chemistry - Honours Level - 2015/6 - August 2015

CH5518 Blockbuster Solids				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Prof P Lightfoot			
Lecturer(s)/Tutor(s):	Prof P Lightfoot, Prof R E Morris			

CH5611 Asymmetric Synthesis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module discusses the methods available for the synthesis of chiral compounds. After a detailed introduction to the specialised terminology and analytical methods used, the main methods using chiral auxiliaries, chiral reagents and chiral catalysts will be described. This will then be combined with a consideration of synthetic strategy and total syntheses of several complex chiral compounds will be discussed.				
Programme module type:	Compulsory for Chemistry with Medicinal Chemistry, Chemistry MChem, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement. Optional for Biomolecular Science, Chemistry with French MChem, 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 Co-ordinator:	Dr M L Clarke			
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7			
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 Co-ordinator:	Prof D O'Hagan			
Lecturer(s)/Tutor(s):	Prof D O'Hagan, Prof T K Smith, Dr G J Florence			

Chemistry - Honours Level - 2015/6 - August 2015

CH5613 Reactive Intermediates			
SCOTCAT Credits:	10	SCQF Level 11	Semester: 2
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr R A Aitken		
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr I A Smellie		

CH5614 Chemical Biology				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-Assessment pattern:	Oral Re-assessment = 100%			
Module Co-ordinator:	Prof J H Naismith			
Lecturer(s)/Tutor(s):	Prof J H Naismith, Prof N J Westwood			

Chemistry - Honours Level - 2015/6 - August 2015

CH5616 Molecular Recognition				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Prof D Philp			
Lecturer(s)/Tutor(s):	Prof D Philp, Dr E R Kay			

CH5711 Advanced Spectroscopic Methods				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr C J Baddeley			
Lecturer(s)/Tutor(s):	Dr C J Baddeley, Dr G Haehner			

CH5713 Surface Science and Heterogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr C J Baddeley			
Lecturer(s)/Tutor(s):	Dr C J Baddeley, Prof P A Wright			

CH5714 Chemical Applications of Electronic Structure Calculations				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr J B O Mitchell			
Lecturer(s)/Tutor(s):	Dr J B O Mitchell, Dr T van Mourik			

Chemistry - Honours Level - 2015/6 - August 2015

CH5715 Energy Conversion and Storage				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:				
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 Co-ordinator:	Dr R T Baker			
Lecturer(s)/Tutor(s):	Dr R T Baker, Prof J T S Irvine			

CH5716 Processing of Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module focuses on the processing of materials. Fundamental materials properties such as crystallinity, composition, crystal phase, phase mixing, domain structure, grains and grain boundaries, porosity and pore structure will be covered and the main methods used to control these properties in order to develop and improve materials for specific applications will be addressed. Processes including casting, extrusion, physical and chemical vapour deposition, calcination, sintering, annealing, plasma treatments, mechanical working, crystallisation and dopant addition will be described and explained. Applications in high-value metals, ceramics and semiconductor materials will be emphasised.				
Programme module type:	Compulsory for Materials Chemistry 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 Co-ordinator:	Prof J T S Irvine			
Lecturer(s)/Tutor(s):	Prof J T S Irvine, Dr M Cassidy			

CH5717 Nanostructured Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Prof W Zhou			
Lecturer(s)/Tutor(s):	Prof W Zhou, Prof M Buck			

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 properly qualified to enter the module.

Ancient History & Archaeology (AA) modules

AA3020 Principles and Techniques in Archaeology (was AN3020)			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to students in Honours Ancient History and Archaeology or Honours Mediaeval History and Archaeology		
Planned timetable:	2.00 pm - 4.00 pm Thu		
This module, which draws on archaeological material from around the world, is divided into two sections. The first is a series of seminars and lectures on the central practical concerns of archaeology: the way in which the type of excavation affects the resulting evidence; methods of studying sites and artefacts; how to publish archaeological material, and the importance of conservation. This will give a general grounding to enable students to understand archaeological reports, and to apply this understanding to other parts of the Honours degree. The second part will address the important contribution of theoretical archaeology to the discipline, while also elucidating the practical applications and relevance of theory.			
Programme module type:	Compulsory for Ancient History and Archaeology, Mediaeval History and Archaeology		
Pre-requisite(s):	2 of AN2002, AN2003, CL2003, CL2004 - with passes at grade 11 or better in both. OR ME2003 - with a pass at grade 11 or better and 1 of AN2003 or HI2001 or MH2002 or MO2008		
Anti-requisite(s):	AN3020		
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation 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:	New coursework of equivalent weight to a 3-hour Honours exam (2 essays or one long essay)		
Module Co-ordinator:	Dr R J Sweetman		
Lecturer(s)/Tutor(s):	Team taught		

Classics - Honours Level - 2015/6 - August 2015

AA4001 Cities and Urban Life in Late Antiquity (300 - 700 CE)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	9.00 am - 11.00 am Thu			
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, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology			
Pre-requisite(s):	Permission of the Classics Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Machado			
Lecturer(s)/Tutor(s):	Dr C Machado			

AA4121 The Ancient City of Rome (was AN4121)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module examines the history and archaeology of the city of Rome from its earliest beginnings to the fifth century CE. Several themes are pursued, in particular the view of Rome as a centre of power and patronage, the capital of empire and residence of kings and emperors. Rome's physical development, the problems of feeding and administering such an immense ancient city, the architectural and artistic implications of rulers' aspirations, and the urban religions are all explored.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Pre-requisite(s):	Permission of the Classics Honours Adviser.		Anti-requisite(s):	AN4121
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Dr J Coulston			

AA4130 The Roman Army (was AN4130)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module will present material for the history and archaeology of the Roman army from the Early Republic through to the Late Empire. Students will study a series of themes, including institutional development, expansion and defence of the Roman empire, the army and political culture, the army in battle, soldiers within Roman society, the archaeology of self-identity, and the Roman military economy. Source material will include historical and epigraphic texts, archaeological sites and finds, and Roman iconography. The Roman army was the first truly 'professional' standing army in European history. It permeated Roman economy and society, and has subsequently fascinated historians, soldiers, political scientists and artists up to the present.</p>				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Pre-requisite(s):	Permission of the Classics Honours Adviser	Anti-requisite(s):	AN4130	
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Dr J Coulston			

Classics - Honours Level - 2015/6 - August 2015

AA4149 The Archaeology of Minoan Crete (was AN4149)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Planned timetable:	9.00 - 11.00 am Wed		
<p>This module examines the archaeology of Minoan Crete from its beginnings to the crisis at the end of the Late Minoan I B period and rise of the Mycenaeans (around 3000-1000 BCE). The approach to the study of this prehistoric culture will be through a range of resources, primarily their artefacts and architecture such as frescos, pottery and religious paraphernalia as well as palatial structures, villas and tombs. Different methodologies will be called upon to reveal aspects of Minoan society such as the organisation of the Minoan states and palaces, religion and art, trade and administration and relations between Crete and neighbouring regions such as Mainland Greece and the Cyclades. Key sites include Knossos, Phaestos, Mallia, Gournia, Myrtos, Armeni, Mycenae and Thera.</p>			
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History		
Pre-requisite(s):	Permission of the Classics Honours Adviser.	Anti-requisite(s):	AN4149
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 0%, Coursework = 65%		
	As used by St Andrews: 2-hour Written Examination = 35%, Coursework = 65% (1 essay, 40%, 1 presentation, 15%, research diary, 10%)		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr R Sweetman		
Lecturer(s)/Tutor(s):	Dr R Sweetman		

AA4425 Networks and Islands: The Archaeology of the Cyclades (was AN4425)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Islands are commonly dismissed as isolated from the currents of history, but they often have pivotal roles in social and economic networks that contradict this image of insularity. This module takes an innovative look at the archaeology of islands with a focus on the Cyclades in the Greek Bronze Age, Classical and Roman periods. We will examine issues concerning the fluctuating status of islands, their changing levels of connectivity and isolation, and of course the merits of network analysis as an approach. Through the archaeology and history we will look at major forms of contact such as trade, tourism and exile to islands, and topics such as piracy and evidence from shipwrecks, and we will focus on some key sites such as Akrotiri, Melos and Delos.				
Programme module type:	Optional for Ancient History and Archaeology, Ancient History, Classical Studies.			
Pre-requisite(s):	Permission of the Classics Honours Adviser.	Anti-requisite(s):	AN4425	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 20%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 35%, Coursework = 65%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Sweetman			
Lecturer(s)/Tutor(s):	Dr R Sweetman			

Ancient History (AN) modules

AN4106 Persia and the Greeks				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	9.00 am - 11.00 am Thu			
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, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History,			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof T Harrison			
Lecturer(s)/Tutor(s):	Prof T Harrison			

AN4110 The Culture of Roman Imperialism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
What imperial powers think they are doing and what they claim to do are issues that deserve just as much scrutiny as their conduct in practice. This module explores how the Roman elite conceived their imperial project - how they explained and justified Rome's conquest of the Mediterranean world and how they thought Roman power should be used. It also asks how literary and visual culture were complicit in legitimising and promoting the imperial project. Key topics include cosmocracy, peace and pacification, the civilising mission, ethnography and the idea of the barbarian. Discussion will proceed through close analysis of a wide range of texts and images.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Dr M Lavan			

AN4136 Alexander the Great				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	9.00 am - 11.00 am Fri.			
Alexander the Great's life and career have exercised an enormous influence - both on the subsequent history of the Hellenistic and Roman worlds, and on the later imagination of artists and writers. This module will ask how much we can really know of Alexander's aims and career, through detailed examination both of the sources for his life and their literary and historiographical models. Topics will include: the origins of ruler cult, Alexander's vision of the world, his relationship with his army, his alleged attempt to fuse east and west and other 'last plans'. The module will look, finally, at some of the modern representations of Alexander - in scholarship, film and literature.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Dr S Lewis			

AN4152 Ancient Empires				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm - 4.00 pm Thu			
This module offers the opportunity for comparative study of the imperial powers of the ancient Mediterranean and Near East. To ensure a manageable workload, it will focus on four case studies, for example the Achaemenid, Seleukid, Roman and Sasanian empires. This will nevertheless be a challenging course, introducing students to much unfamiliar material, and will require wide and disciplined reading. The first half of the course will introduce students to the four imperial systems in turn. The second half will engage in comparative analysis of key aspects of imperial practice, including modes of control, relations with local elites and the extraction of surplus.				
Programme module type:	Optional for all Ancient History Degrees, Ancient History and Archaeology, and Classical Studies, Classics, Greek and Latin (Single and Joint, but excluding Three subject) Degrees, History, Mediaeval History and Archaeology, Scottish History			
Pre-requisite(s):	Permission of the Classics Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 2 commentaries)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Dr M Lavan			

Classics - Honours Level - 2015/6 - August 2015

AN4155 Religious Communities in the Late Antique World				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>The late antique period was marked by dramatic developments in the religious history of the Mediterranean, such as the decline of pagan cults, the rise and establishment of Christianity, and the spread of Islam. This module will approach these developments from the perspective of local communities, asking how they responded to and helped to shape these wider processes, considering religious change in its proper social and cultural context. Issues such as the definition of religious identities, the construction of religious authority, and the role played by religion in urban life will be considered in a comparative perspective, through the analysis of specific cases from around the Mediterranean.</p>				
Programme module type:	Optional for Ancient History, Classical Studies			
Pre-requisite(s):	Permission of the Classics Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 20%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 35%, Coursework = 65%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Machado			
Lecturer(s)/Tutor(s):	Dr C Machado			

Classical Studies (CL) modules

CL4406 Herodotus				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Herodotus was known, even in antiquity, as both the 'father of history' and the 'father of lies', but his reputation has undergone serious re-evaluation in recent years. This module will examine all aspects of Herodotus' work, and its value as historical evidence, while at the same time seeking to locate the Histories in their late fifth-century intellectual context. Topics will include his ideas of causation, use of sources, the representation of foreign lands and peoples, religious beliefs, geographical understanding, and his implicit critique of Athenian imperialism.				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	Permission of the Classics Honours Adviser.	Anti-requisite(s):	CL3101, AN4122	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Anderson			
Lecturer(s)/Tutor(s):	Dr R Anderson			

CL4419 Magic in Greco-Roman Literature and Life				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	2.00 -m - 4.00 pm Tue			
This module examines magic and related phenomena in the Greco-Roman world. Attention will be paid both to the fascination with magic in literature and to magical beliefs and practices in real life, not just practices to which the ancient writers themselves apply the word 'magic' or similar terms, but also features of conventional religion, public and private, that some modern scholars have regarded as magical. This will require examination of the problems of defining magic, sorcery, witchcraft, and the like, and of distinguishing them from religion. Students will study - in English translation - both literary texts (from Homer to Apuleius and beyond) and documentary and archaeological evidence (including magical papyri and curse tablets).				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R T Anderson			
Lecturer(s)/Tutor(s):	Dr R Anderson			

Classics - Honours Level - 2015/6 - August 2015

CL4420 Fame, Tradition and Narrative: Homer's Iliad				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module will give students the opportunity to study Homer's celebrated martial epic, the Iliad, in translation and in detail. It will consider the relevant social and cultural-historical questions which are prompted by this tale of heroic savagery and suffering: why might archaic Greeks have needed an epic like this? Why is the Homeric conception of the heroic so fraught with conflict and so obsessed with honour, memory and power? The module will also analyse and interpret the epic's rich poetic texture and 'oral-derived' style (formulae, similes, type-scenes...); it will explore the character of its heroes and their relationship with divinity. For all its depictions of battle and slaughter the Iliad is a poem about language as much as action and participants will consider the complex rhetoric of heroes who fight with words as well as swords. Finally, the module will ask how and why famous artists and poets of the modern era have returned to the Iliad's ideas and imagery.</p>				
Programme module type:	Optional module for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

CL4433 Religions of the Greeks				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module will examine the range of religious practice and experience in Greece primarily between ca 500 and ca 300 BCE. The civic and political roles of religion will be considered, from local heroes to panhellenic festivals, as will the role of religion in the home and in the life-cycle of the individual. Divination and healing-cults will also be discussed. Attention will be paid throughout to questions of method and interpretation, with regard both to the handling of ancient evidence and to the relative merits and demerits of the competing modern approaches. The overall aim is to attempt to understand a key element of ancient Greek mentality.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	Permission of the Classics Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Anderson			
Lecturer(s)/Tutor(s):	Dr R Anderson			

CL4437 Modern Classics: Classics in the Nineteenth and Twentieth Centuries				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	9.00 am - 11.00 am Tue			
<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 Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R T Anderson			
Lecturer(s)/Tutor(s):	Dr R T Anderson			

CL4438 Animals in Greco-Roman Antiquity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm - 4.00 pm Tue			
<p>From horses and dogs to crocodiles and rhinoceroses, and from oxen and ferrets to unicorns and giant ants, this module examines human relationships with animals in ancient Greece and Rome. Animals have played essential roles in human societies for all of recorded history, and today form a living link with the classical past. Using literary, artistic and archaeological evidence the module will trace the significance of animals in classical life, as sources of food, labour, companionship and entertainment, and as objects of ritual, scientific experiment and conspicuous consumption. Students will examine the conceptualisation of the animal (as 'wild', as 'pet', or as 'exotic', for instance), and will consider the philosophical debates surrounding animals in antiquity and their symbolic meanings in ancient societies.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Dr S Lewis			

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CL4455 Roman Praise				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module considers Roman praise-giving in a variety of contexts - educational, familial, legal, social, religious, political - over a large timescale (from the late Republic to the fifth century). The module is designed both to plot changes in Roman praise-culture over time and to identify the key functions of praise in Roman society, from infancy to death. A regular comparandum will be Greek praise, via/against which Roman praise contributed to a sense of Roman cultural identity. Many primary texts in translation, in verse and prose and across several genres, will be read.</p>				
Programme module type:	Optional for Ancient History and Archaeology, all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	Permission of the Classics Honours Adviser.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50% (2 source criticisms, 20%; 1 essay, 30%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees			

CL4500 Pleasure, Goodness and Happiness: Hellenistic Ethics (was CL4444)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	4.00 - 5.00 pm Tue and Thu			
<p>This module will explore the ethical thought of the Hellenistic period, a key phase in the development of Graeco-Roman culture. We shall examine some of the most sophisticated and influential moral theories of antiquity, principally those of the Epicureans, Stoics and sceptics. The core text will be Cicero's On Moral Ends. The module will include the following topics: the nature and value of pleasure; friendship and society; the fear of death; virtue and vice; happiness; human development; moral psychology; life without beliefs. All primary texts will be available in English translation.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) or Philosophy Degrees			
Anti-requisite(s):	CL4444, CL4458, CL4502			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

CL4503 Plato on Love, Virtue and the Symposium				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>Some of Plato's most powerful writing concerns love (eros) and its contribution to the good human life. In the Symposium and Phaedrus Plato explores the relationship between interpersonal love, virtue and the various forms of creativity, including above all philosophy. But he also uses these dialogues to examine previous writing about love, particularly in poetry, and the Greek symposium as an environment for reflections on love. In the module we will study both the Symposium and the Phaedrus, before turning to Plato's final reflections on virtue and the symposium in his Laws. All texts will be provided in English translation.</p>				
Programme module type:	Optional for Ancient History and Archaeology, all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) or Philosophy Degrees			
Anti-requisite(s):	CL4458, CL4502, GK4100			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

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CL4602 Classical Temple to Christian Basilica: Development of Religious Architecture in Greece (was AN4424)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Planned timetable:	9.00 am - 11.00 am Wed		
<p>This module takes a broad approach to the study of Greece from the Classical to Early Christian periods. Within a historical framework it aims to illustrate how religious architecture (temples, sanctuaries, basilicas and monasteries) can be used to study key changes in Greek society and politics. The module will examine religious architecture and interior decoration and then apply an architectural study of its function to discover more about the nature of the liturgy and the people involved in it. Using historical sources in combination with the study of particular sites such as Athens, Delphi, Corinth and Sparta the following themes will be a focus: architecture as propaganda, effects of Hellenic expansion, Romanisation and Christianisation.</p>			
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees		
Anti-requisite(s):	AN4424, CL4424		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, and 1 coursework consultation hour.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 20%, Coursework = 45%		
	As used by St Andrews: 2-hour Written Examination = 35%, Coursework = 65% (1 essay 25%, 1 presentation 20%, research diary 20%)		
Re-Assessment:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr R Sweetman		
Lecturer(s)/Tutor(s):	Dr R Sweetman		

CL4603 Greek Painted Pottery (was CL4442)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<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 Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	Permission of the Classics Honours Adviser.	Anti-requisite(s):	CL4442	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Dr S Lewis			

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CL4990 Special Topic in Classical Studies				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students also taking ID4002.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Ancient History and Archaeology, and all Classical Studies or Classics Degrees, and Ancient History, Greek, Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	Permission of the Classics Honours Adviser.	Anti-requisite(s):	CL4999, GK4998, GK4999, LT4999.	
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 Co-ordinator:	Dr R T Anderson			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

CL4996 Dissertation (Non-Graduating - 60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1 or 2 or Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>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/)</p>				
Programme module type:	Optional for Ancient History and Classical Studies Visiting Programmes			
Anti-requisite(s):	CL4997			
Learning and teaching methods and delivery:	Weekly contact: 1-hour research training; 8 hours of supervisory meetings.			
	Scheduled learning: 9 hours		Guided independent study: 591 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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

CL4997 Dissertation (Non-Graduating) (30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module is for incoming Exchange and non-graduating students who spend all or part of their time in St Andrews working on dissertations which they will submit in their home university. Such students will receive supervision during their time in St Andrews and may be required to submit samples of written work for informal assessment, but there is no formal assessment in St Andrews. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Ancient History and Classical Studies Visiting Programmes			
Anti-requisite(s):	CL4996			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

CL4998 Dissertation (Long) In Classical Studies				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1 or 2 or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	This module is available only as part of an approved exchange programme.			
Planned timetable:	To be arranged.			
This module is available only to students who take it while studying at another university on an approved exchange programme. It provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of the classical world, but the topic must be approved by the Dissertations Co-ordinator. The dissertation will either be completed within one semester or spread over two semesters. The maximum length is 20,000 words (see module booklet for details).				
Programme module type:	Optional for Ancient History and Classical Studies Degrees			
Anti-requisite(s):	CL4999, CL4997, CL4996, LT4999, GK4999, GK4998			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

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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:	2015/6 & 2016/7			
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 the classical world, including ancient history, and/or ancient archaeology, but the topic must be approved by the Dissertations Co-ordinator. The dissertation will be completed within one semester, and the maximum length is 10,000 words (see module booklet for details).				
Programme module type:	Compulsory for Ancient History, Classical Studies Single Honours Degrees Optional for Ancient History, Classical Studies Joint Degrees HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History			
Anti-requisite(s):	CL4998, CL4997, CL4996, CL4990, 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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

CL4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

CL4795 Joint Dissertation (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

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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:	2015/6 & 2016/7		
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: 3 or 4 classes.		
	Scheduled learning: 41 hours	Guided independent study: 259 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (essay, 20%, 4 class tests, 40%)		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr J Hesk		
Lecturer(s)/Tutor(s):	Team taught		

GK3022 Greek for Honours Classics 2: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am - 11.00 am 3 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 ways in which different genres and authors can share and manipulate language, strategy and themes. For details of each year's prescribed texts, consult the module booklet and/or the School of Classics Honours booklet.</p>				
Programme module type:	Compulsory for Single Honours Classics or Joint Honours Greek Degree students who passed GK1002 in their second year.			
Pre-requisite(s):	GK3021	Anti-requisite(s):	GK2004	
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (essay, 20%, 4 class tests, 40%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Mantzouranis			
Lecturer(s)/Tutor(s):	Team taught			

GK4100 Greek Prose Composition				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon - 1.00 pm Tue and Fri			
<p>This module will deal with the different ways in which students may make use of their knowledge of Greek in order to produce both translations from English texts into grammatically correct Greek and also free compositions directly in Greek. This will involve a more active process of language learning than is required for translation from Greek into English, though it will also have benefits for the reading of original texts. The content of the module will deal with all syntactical aspects of the Greek language that need special study for effective translation into Greek: particles, participles, the treatment of abstract nouns, equivalence between English and Greek idioms, etc.</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch			

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GK4102 Greek Tragedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 12.00 noon Tue and 2.00 - 3.00 pm Fri			
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			
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: 33 hours		Guided independent study: 267 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 Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

GK4105 Greek Rhetoric and Its Representation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module gives students the opportunity to translate and perform detailed critical analysis of Greek prose texts of the classical period which are concerned with the nature, development and representation of rhetoric and sophistry. It also requires students to address broader questions concerning Athenian culture's social, moral and political response to the development of an 'art' of persuasion.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	2 of GK2001, GK2002, GK2003, GK2004, including at least 1 grade 11 or above, OR GK3021 and GK3022			
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial/lecture, and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Dr J Hesk			
Lecturer(s)/Tutor(s):	Dr J Hesk			

GK4109 Greek Literature in the Roman Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am 1 12.00 noon Wed and Fri			
<p>The first to third centuries CE were one of the most fertile periods of Greek literary production (and have been an exciting growth area of recent scholarship). This module samples a range of genres, paying particular attention to detailed appreciation of specific works: the speeches and dialogues of the controversial and colourful orator/philosopher Dio Chrysostom; the irreverent satirical and comical writing of Lucian; and the works of Philostratus, who offers us such a vivid portrait of his own contemporary culture through his biographical writing. It also addresses a range of broader questions: how far are these texts influenced by their social and political context, especially by the continuing Roman rule over the Greek east? What relation do they have with classical literary traditions which they draw on and transform in such original ways? The module will combine thematic discussion with detailed work on set texts and related unseen passages.</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Prof J König			
Lecturer(s)/Tutor(s):	Prof J König			

GK4110 Imagining the Symposium				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module will explore the symposium, a key cultural institution of the ancient Greek world, through its representation and dramatisation in both poetry and prose. The texts studied, which were produced for performance at symposia and/or designed to evoke the mentality and preoccupations (alcoholic, erotic, political, religious, and cultural) associated with sympotic gatherings, will range from the lyric and elegiac poetry of the archaic period, via the two Socratic Symposia of Plato and Xenophon in the fourth century, to the continued thematisation of the symposium in Hellenistic epigrams. The module will also make some supplementary use of pictorial evidence for the history of the symposium, paying comparative attention to the roles of poetic and visual material within symposiac culture.</p>				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Anti-requisite(s):	CL4503			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Prof S Halliwell			
Lecturer(s)/Tutor(s):	Prof S Halliwell			

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GK4113 Greeks and Barbarians				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Exploring Greek identity through representation of non-Greeks was a prominent feature of Greek literature and culture across many centuries. This module examines that theme in a range of authors and periods. It looks first at archaic epic, especially Homer's <i>Odyssey</i> . The central part of the course then focuses on classical Athens, especially Euripides and Aristophanes, as well as a selection of extracts from prose texts (Herodotus is an important reference point, but will not be studied at length as a set text, having been covered at GK 1000-level). The final part of the course then looks ahead, more briefly, to the Hellenistic and Roman worlds, with extracts from the description of India in Philostratus' <i>Life of Apollonius of Tyana</i> .				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	2 of GK2001, GK2002, GK2003, GK2004, including at least 1 grade 11 or above, OR GK3021 and GK3022			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Prof J König			
Lecturer(s)/Tutor(s):	Prof J König			

GK4116 Greeks on Education				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	4.00 pm - 5.00 pm Tue and 4.00 pm - 5.00 pm Thu			
The debate about education in one of the most exciting periods of ancient Athenian history. Can education make you a better person? Could education make you a worse person? What form should a good education take? We shall consider how different Athenian intellectuals conceived of the challenge posed by sophistry, how they tried to distance their own teaching from sophistry, and how they looked within and beyond Athenian culture for models of good (and bad) education. We shall also examine their discussions of whether education can deliver the advantages promised by some educators and their different conceptions of the connection between education and political leadership.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

GK4117 Lies, History and Ideology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
We shall examine stories about the Athenian past, particularly the myth of 'autochthony', according to which the Athenians' native land gave birth to their ancestors. We shall consider the role played by these stories in shaping Athenian civic identity; our focus will be on the sophisticated exploration of and response to these stories in Athenian literature, rhetoric and philosophy. An important theme discussed by these texts is the political expediency of telling falsehoods about the past. The set texts will be Euripides' Ion, selected parts of Isocrates' political writing, Plato's Menexenus and selected parts of Plato's Republic.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Dr A Long			

GK4120 Thucydides - 'Histories'				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Thucydides' 'History of the Peloponnesian War' is one of the most brilliant, exciting, and challenging works of world literature. In this module we want to explore Thucydides' fascinating narrative from a literary, stylistic, and historical perspective. The classes will combine close reading and intensive analysis of key passages from Thucydides' work (such as Perikles' funeral oration and the account of the great plague in Athens; the Mytilene debate; the Melian Dialogue; excerpts from the Sicilian expedition, etc.) with discussion of more general issues arising from Thucydides' work on the basis of select secondary reading. Topics we will look into will include key aspects of Thucydides' interpretation of the past (such as man's place in history; morals, power, and responsibility; historical truth); Thucydides' narrative method (the role of speeches; metaphors and historical interpretation, etc.); and some historical questions (for example, Thucydides' use of historical documents; his reliability as a "source"). At the end of this module you will have gained in-depth insight into the work of one of the most eminent and influential historians of all times from a range of different perspectives. You will also have learned how to deal with Thucydides' highly original style, which often pushes language to its limits.				
Programme module type:	Optional for all Classics and Greek Degrees and Latin (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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 Co-ordinator:	Dr N Wiater			

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GK4998 Dissertation in Greek (Long)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1 or 2 or Whole Year
Academic year:	2015/6 & 2016/7			
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):	(GK2001 with GK2002) or (GK2003 with GK2004) - with a pass at grade 11 or better in at least one of these.			
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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

GK4999 Dissertation in Greek				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Greek life or literature, provided that the study of Greek texts is involved. The topic must be approved by the Dissertations Co-ordinator. The dissertation will be completed within one semester, and the maximum length is 10,000 words (see module booklet for details).				
Programme module type:	Optional for all Classics and Greek (except Single Honours) Degrees			
Pre-requisite(s):	2 of GK2001, GK2002, GK2003, GK2004, including at least 1 grade 11 or above, OR GK3021 and GK3022			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, GK4998, LT4999, CL4990			
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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Individual supervisors assigned as required			

Latin (LT) modules

LT3017 Latin for Honours Classics 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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, LT4203	
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 meetings per week plus attendance at selected 4000-level LT seminars.			
	Scheduled learning: 47 hours		Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework (1 essay, 30%; 1 literary criticism, 20%; 2 class tests, 10%) = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Team taught			

LT3018 Latin for Honours Classics 2				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr N Manioti			
Lecturer(s)/Tutor(s):	Team taught			

Classics - Honours Level - 2015/6 - August 2015

LT4201 Roman Epic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Selected portions from three Latin epics are studied in this module. Topics covered will include the influence of Greek epic upon the Latin writers, and the development of epic in the century after Virgil. Close attention will be paid to each poet's handling of themes and narrative structure, to his exploitation of the tradition, and to his style.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	2 of LT2001, LT2002, LT2003, LT2004, including at least 1 grade 11 or above, OR LT3017 and LT3018			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: Coursework = 60% (2 commentaries, 30%; essay, 15%, class test, 15%), 2-hour Written Examination = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Dr E Buckley, Dr E R G Gee			

LT4203 Latin Prose Composition				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module will deal with the different ways in which students may make use of their knowledge of Latin in order to produce both translations from English texts into grammatically correct Latin and also free compositions directly in Latin. This will involve a more active process of language learning than is required for translation from Latin into English, though it will also have benefits for the reading of original texts. The content of the module will deal with all aspects of the Latin language that need special study for effective translation into Latin: particles, participles, the treatment of abstract nouns, equivalence between English and Latin idioms, etc.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	2 of LT2001, LT2002, LT2003, LT2004, including at least 1 grade 11 or above, OR LT3017 and LT3018			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 60% (2 class tests, 30% each), 2-hour Written Examination = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch			

LT4207 Roman Comedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
The aims of this module are to put the development of Roman comedy in its Hellenistic context, to explore the different approaches of Plautus and Terence in language, metre, style, and technique, and to investigate the issues involved in continuing scholarly debate. Three plays will be read closely with modern commentaries and their introductions. The influence of Menander will also be examined, using English translations of his work.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Anti-requisite(s):	CL4403			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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% (2 source criticisms 30%; essay 15%; class test 15%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Dr E Buckley			

LT4208 Late Latin				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	12.00 noon - 1.00 pm Tue and Fri Thu			
This module aims to give an introduction to some of the most important Latin texts from the Late Roman Empire in the West. Selected literary works, of a variety of genres, will be read in Latin, along with a wider corpus read in translation.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 literary criticisms, 30%, 1 class-test, 15%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees			

Classics - Honours Level - 2015/6 - August 2015

LT4209 Latin Historical Writing				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon - 1.00 pm Wed and 10.00 am - 11.00 am 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			
Anti-requisite(s):	CL4405			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: Coursework = 60% (2 commentaries, 30%; essay, 15%; class test, 15%), 2-hour Written Examination = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Team taught			

LT4210 Latin Didactic Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am -12.00 noon Tue and 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. Three books will be studied with particular attention to their literary form and background, to the didactic poet's message, and to his self-presentation as an authority and teacher.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 literary criticisms, 30%, 1 class-test, 15%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Gee			
Lecturer(s)/Tutor(s):	Dr E Gee			

LT4213 Roman Satire				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Thu			
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			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A König			
Lecturer(s)/Tutor(s):	Dr A König			

LT4214 Latin Philosophical Writing				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module will explore a tradition of philosophy which has often been considered 'secondary' or 'derivative', namely the writing of philosophical works in Latin. This module aims to evaluate Latin philosophical writing in its own right. Taken as a whole, the Latin philosophical corpus present an impressive record of cultural assimilation and innovation. We shall see how, from the Late Republic onwards, Roman philosophy engages with debates current in the Hellenistic philosophical schools, Romanising them in the process, and placing them in the context of world order under the Roman empire.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	2 of LT2001, LT2002, LT2003, LT2004, including at least 1 grade 11 or above, OR LT3017 and LT3018			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 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%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E R G Gee			
Lecturer(s)/Tutor(s):	Dr E R G Gee			

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LT4217 Latin Oratory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Oratory - or 'public-speaking' - was a fundamental medium throughout classical antiquity, in Greek and Roman cultures alike. It dominated mainstream education and was a sine qua non in politics and law, those principle arenas of the aristocracy. But despite being a constant, oratory was far from stable and was frequently theorised, defined, defended and developed. This module looks at some key texts in the history of Latin oratory across times of immense change – the late Republic through to the High Empire.				
Programme module type:	Optional for all Classics and Latin Degrees and Greek (Single and Joint, but excluding Three subject) Degrees			
Pre-requisite(s):	2 of LT2001, LT2002, LT2003, LT2004, including at least 1 grade 11 or above, OR LT3017 and LT3018			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 45%, Practical Examinations = 0%, Coursework = 55%			
	As used by St Andrews: Coursework = 60% (2 source criticisms, 30%; essay, 15%; class test, 15%); 2-hour Written Examination = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Dr R Rees, Dr N Wiater			

LT4999 Latin Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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 Dissertations Co-ordinator. The dissertation will be completed within one semester, and the maximum length is 10,000 words (see module booklet for details).				
Programme module type:	Optional for all Classics and Latin Degrees			
Pre-requisite(s):	2 of LT2001, LT2002, LT2003, LT2004, including at least 1 grade 11 or above, OR LT3017 and LT3018			
Anti-requisite(s):	CL4999, CL4998, CL4997, CL4996, GK4999, GK4998, CL4990			
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 Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	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 or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are properly qualified to enter the module.

Computer Science (CS) modules

CS3051 Software Engineering			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	To be arranged.		
This module gives a broad overview of software engineering, presenting the fundamental aspects as a collaborative professional activity including its concerns and approaches. Students learn to apply a number of different software engineering methods and practices, and to match their choice of method to the problem at hand and the context in which a project is undertaken. The module provides the background and practical experience for students to enter professional careers where they will be working on large-scale software projects in teams.			
Programme module type:	Compulsory for Computer Science 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		
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk		

Computer Science - Honours Level - 2015/6 - August 2015

CS3052 Computational Complexity				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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):	CS3103 and CS3201	
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3098 Minor Software Team Project				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	To be arranged.			
This module allows students to take part in a substantial software engineering project as part of a team, using professional development techniques. Each team specifies, plans, designs, implements and documents a medium-sized software system, under the guidance of a member of staff. Cooperation within and between teams is essential in order to produce successful solutions. This module has a similar structure to CS3099, but with reduced scope appropriate for Joint Honours students.				
Programme module type:	Compulsory for Computer Science Joint Honours Degrees.			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3099	
Required for:	CS4098			
Learning and teaching methods and delivery:	Weekly contact: Lectures, supervisor meetings and demonstrations arranged as necessary			
	Scheduled learning: 69 hours		Guided independent study: 81 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS3099 Major Software Team Project				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Not available to General Degree Students			
Planned timetable:	To be arranged.			
This module allows students to take part in a substantial software engineering project as part of a team, using professional development techniques. Each team specifies, plans, designs, implements and documents a medium-sized software system, under the guidance of a member of staff. Cooperation within and between teams is essential in order to produce successful solutions.				
Programme module type:	Compulsory for Computer Science BSc, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3098	
Required for:	CS4099			
Learning and teaching methods and delivery:	Weekly contact: Lectures, supervisor meetings and demonstrations arranged as necessary.			
	Scheduled learning: 69 hours		Guided independent study: 231 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3101 Databases				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module introduces data models and modeling techniques, relational design and normalisation. It also examines a range of issues in database implementation, including indexing, query processing, transactions and recovery.				
Programme module type:	Optional for Computer Science 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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS3102 Data Communications and Networks				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module introduces the basics of data communications and computer networks, and examines network protocols and architectures.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101), CS2002 and CS2003	Anti-requisite(s):	CS5021	
Required for:	CS4103, CS4302			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3104 Operating Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3105 Artificial Intelligence				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3106 Human Computer Interaction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS3301 Component Technology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS3302 Data Encoding				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4052 Logic and Software Verification				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme			
Pre-requisite(s):	CS3052			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4098 Minor Software Project				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module has the same content as CS4099, but with reduced scope appropriate for Joint Honours students.				
Programme module type:	Compulsory for Joint Computer Science degrees.			
Pre-requisite(s):	CS3098	Anti-requisite(s):	CS4099, CS4796	
Learning and teaching methods and delivery:	Weekly contact: Individual supervision			
	Scheduled learning: 69 hours		Guided independent study: 81 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS4099 Major Software Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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: 69 hours		Guided independent study: 231 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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			
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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

CS4102 Computer Graphics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4103 Distributed Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS4201 Programming Language Design and Implementation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4202 Computer Architecture				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4203 Computer Security				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	IS5104	
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4204 Concurrency and Multi-Core Architectures				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS4302 Multimedia				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks.				
Programme module type:	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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4303 Video Games				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games.				
Programme module type:	Optional for Computer Science 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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4402 Constraint Programming				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a modern solver.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

CS4499 Computer Science (Special Subject)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS5010 Artificial Intelligence Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5011 Artificial Intelligence Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5012 Language and Computation				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5021 Advanced Networks				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002	Anti-requisite(s):	CS3102	
Co-requisite(s):	CS5001 (PG programmes only)	Required for:	CS5023	
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS5023 Mobile and Wireless Networks				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3102 or CS5021			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5030 Software Engineering Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5031 Software Engineering Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:				
Planned timetable:	To be arranged.			
<p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	(CS2001 or CS2101) and CS2002			
Required for:	CS5032, CS5033			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5032 Critical Systems Engineering				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS3051 or CS5031			
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS5033 Software Architecture				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	CS3051 or CS5031			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 25 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5040 Human Computer Interaction Principles and Methods				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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	
Required for:	CS5042, CS5044			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5041 Interactive Software and Hardware				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5042 User-Centred Interaction Design				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

Computer Science - Honours Level - 2015/6 - August 2015

CS5044 Information Visualisation and Visual Analytics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
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			
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 Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

CS5199 Individual Masters Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	1 & 2 (taught twice)
Academic year:	2015/6 & 2016/7			
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):	CS4099, 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 Co-ordinator:	hons-coord-cs@st-andrews.ac.uk			

ID5059 Knowledge Discovery and Datamining				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
<p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Anti-requisite(s):	MT5759			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	masters-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 properly qualified 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:	2015/6 & 2016/7		
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 Co-ordinator:	Dr M Elliott		
Lecturer(s)/Tutor(s):	Dr M Elliott		

Divinity - Honours Level - 2015/6 - October 2015

DI3704 Reading in Theological Ethics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr J Perry			
Lecturer(s)/Tutor(s):	Dr J Perry			

DI3711 Reading in the Old Testament / Hebrew Bible				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 9.00 am - 11.00 am 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 Co-ordinator:	Dr M Nevader			
Lecturer(s)/Tutor(s):	Dr M Nevader			

DI3712 Reading in the New Testament				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 9.00 am - 11.00 am 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 Co-ordinator:	Dr D Moffitt			
Lecturer(s)/Tutor(s):	Dr D Moffitt			

DI4015 Communication in Divinity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>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.</p>				
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 Co-ordinator:	Dr E Stoddart			
Lecturer(s)/Tutor(s):	Dr E Stoddart			

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DI4498 Honours Dissertation in Divinity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 (training) - writing can be done in either Semester
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in dissertation form. The length of the dissertation should be approximately 10,000 words, and must not in any case exceed 12,000 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</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 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 Co-ordinator:	Dr D Moffitt			
Lecturer(s)/Tutor(s):	Dr D Moffitt			

DI4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

DI4511 Church History Special Topic: Mediaeval Monastic Spirituality				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	Lecture: 11.00 am - 12.00 noon Mon, Seminar: 9.00 am - 11.00 am Wed			
<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 MTheol, BD, Single Honours, MA Theological Studies and Joint Honours MA Theological Studies			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr W Hyland			
Lecturer(s)/Tutor(s):	Dr W Hyland			

DI4550 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to Baylor University students.			
Planned timetable:	To be arranged.			
Description to follow.				
Programme module type:	Baylor University programme.			
Pre-requisite(s):	Baylor University programme.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (To be confirmed)			
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 Co-ordinator:	Baylor Programme Director			
Lecturer(s)/Tutor(s):	Baylor Programme Director			

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DI4551 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to Baylor University students.			
Planned timetable:	To be arranged.			
Description to follow.				
Programme module type:	Baylor University programme.			
Pre-requisite(s):	Baylor University programme.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (To be confirmed)			
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 Co-ordinator:	Baylor Programme Director			
Lecturer(s)/Tutor(s):	Baylor Programme Director			

DI4609 Gospel of Matthew (Greek Texts)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	Lecture: 10.00 am - 12.00 noon Thu, Seminar: 9.00 am - 10.00 am Tue			
This module aims to develop skills in the interpretation of the Gospel of Matthew (Greek texts), with particular attention given to appreciating the text's literary and theological contribution to the New Testament. While the module will focus primarily on the narrative interpretation of the text, important social and historical issues will also be considered. The module will explore (1) relevant background issues, including authorship, provenance, and purpose, (2) the Matthean narrative in its literary and theological context, and (3) selected textual issues that are important and/or disputed within contemporary scholarship.				
Programme module type:	Optional for MTheol, MA Biblical Studies, MA New Testament, BD			
Pre-requisite(s):	DI1005, DI1006, DI3712		Anti-requisite(s):	DI4608
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Take Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Shively			
Lecturer(s)/Tutor(s):	Dr E Shively			

DI4616 New Testament Special Topic - Atonement				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am - 1.00 pm Tue			
<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			
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 Co-ordinator:	Dr D Moffitt			
Lecturer(s)/Tutor(s):	Dr D Moffitt, Dr M Nevader			

DI4626 The Book of Revelation: English Texts				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	Lecture: 10.00 am - 12.00 noon Tue, Seminar: 12.00 noon - 1.00 pm Thu			
<p>The module will examine the Book of Revelation (The Revelation of St John) in its biblical, historical and contemporary contexts. The core of the course will involve exegetical study of the book itself, with due attention paid to the genre of "apocalypse" and to the historical context from which the book came. Around this core we will examine the various interpretations of Revelation that are to be found through history, up to the present day, when the book has been massively popularised (and arguably heavily misunderstood) through ecclesiastical movements and through fictional works such as the Left Behind series.</p>				
Programme module type:	Optional for Biblical Studies, New Testament and MTheol			
Anti-requisite(s):	DI4627			
Learning and teaching methods and delivery:	Weekly contact: 3-hour lecture/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 Co-ordinator:	Dr E Shively			
Lecturer(s)/Tutor(s):	Dr E Shively			

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DI4632 Reading in the Greek New Testament				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	Lecture: 11.00 am - 12.00 noon Thu, Seminar: 10.00 am - 12.00 noon Mon			
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.				
Programme module type:	Optional for Biblical Studies, New Testament, Theological Studies, MTheol and BD			
Pre-requisite(s):	DI1005, DI2201			
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 = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 3-hour Written Examination = 30%, Coursework = 70%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Hafemann			
Lecturer(s)/Tutor(s):	Dr S Hafemann			

DI4705 Biblical Aramaic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 2.00 pm - 4.00 pm Fri			
This module introduces students to a Semitic language related to Hebrew, in which parts of the Hebrew Bible are written. It consists of an introduction to basic elements of the language and study of selected texts from the biblical books of Daniel (court tales describing life in the Babylonian capital during the exile) and Ezra (diplomatic texts from the post-exilic period dealing with the return of the exiles to Palestine and the rebuilding of the temple in Jerusalem).				
Programme module type:	Optional for Biblical Studies, Hebrew, 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 Co-ordinator:	Prof J Davila			
Lecturer(s)/Tutor(s):	Prof J Davila			

DI4711 Old Testament Special Topic : Creation and Chaos in the Old Testament and Ancient Near East.				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	Lecture: 12.00 noon - 1.00 pm Fri, Seminar: 11.00 am - 1.00 pm Mon			
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			
Pre-requisite(s):	DI2001			
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 Co-ordinator:	Dr M Nevader			
Lecturer(s)/Tutor(s):	Dr M Nevader			

DI4726 Hebrew Readings				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 2.00 pm Wed			
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.				
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 Co-ordinator:	Dr W Tooman			
Lecturer(s)/Tutor(s):	Dr W Tooman			

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DI4816 The Theology of the Musical				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am - 1.00 pm Wed.			
This module examines the theological and spiritual dimension of one of the most powerful and distinctive cultural form and icon of the twentieth century - the musical. It involves detailed textual, linguistic, musical and cultural analysis of key musicals, including The Sound of Music, Joseph and the Amazing Technicolor Dreamcoat, Jesus Christ Superstar, Godspell, Fiddler on the Roof, Les Miserables and Whistle Down the Wind, and examination of their implicit and explicit theological agendas and philosophies. The module also considers the musical as a liturgical vehicle and post-modern theological and spiritual experience.				
Programme module type:	Optional for Theological Studies, BD and MTheol			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Dr I Bradley			
Lecturer(s)/Tutor(s):	Dr I Bradley			

DI4823 Worship and the Word: Liturgy and Homiletics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	Lecture: 3.00 pm - 4.00 pm Tue, Seminar: 11.00 am - 1.00 pm Thu			
This module examines the practice of worship and preaching within Christian churches in historical, theological and practical perspectives. Students will explore differing accounts of the components of Christian liturgy and hymnody, and the theological commitments driving them, and will discuss the relevance, nature and practice of Christian preaching. In addition to classics texts and traditional forms, attention will be paid to the 'new homiletic' arising from the USA over the last generation, and to patterns of alternative worship. Assessment will include a significant practical element.				
Programme module type:	Optional for Theological Studies, 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 = 25%, Coursework = 25%			
	As used by St Andrews: 3-hour Written Examination = 50%, Practical Examination = 25%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr I Bradley			
Lecturer(s)/Tutor(s):	Dr I Bradley, Dr S Holmes			

DI4826 Themes in Postcolonial Theology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am - 2.00 pm Wed			
<p>This module explores some of the main themes in postcolonial theology. Postcolonial theology refers to a variety of theologies that have challenged structures of thought, classification and order that have been inherited through colonial, political and theological projects from the Enlightenment. Initially triggered by Edward Said's seminal work <i>Orientalism</i> (1978) postcolonial theologies have used postcolonial theory as a heuristic device in order to challenge the dominance of a Eurocentric theology. However, postcolonial theologies have managed to bridge an initial dichotomy between Western (European, North Atlantic) and Third World theologies by a hermeneutical alliance with postcolonial discourses within European theology.</p>				
Programme module type:	Optional for Theological Studies , BD and MTheol			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Prof M Aguilar			
Lecturer(s)/Tutor(s):	Prof M Aguilar			

DI4827 Christian Ethics and Contemporary Society				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	Lecture: 12.00 noon - 1.00 pm Mon, Seminar: 2.00 pm - 4.00 pm Thu			
<p>This module explores Christian responses to a number of contemporary moral issues. We will compare how various Christian responses differ among themselves over history and how they differ from those offered by non-Christians. Our goal is to better understand the historical and theoretical background to common moral arguments nowadays; often we are familiar with the arguments without perceiving their presuppositions or genealogies. In particular, we will seek to understand how Christian ethics relates to the ethos of liberal democracy, which is oriented toward rights, freedom, and equality. Is Christian ethics fundamentally compatible with, or in tension with, values such as freedom of speech and a secular state? We seek to answer this question by careful study of issues such as abortion, euthanasia, global poverty, the use of religious reasons in public debate, same-sex marriage, and war.</p>				
Programme module type:	Optional for Theological Studies, BD and MTheol			
Pre-requisite(s):	DI2000			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Dr J Perry			
Lecturer(s)/Tutor(s):	Dr J Perry			

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DI4914 Theology Special Topic: A Quest for God: The Religious World of Dante				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	2.00 pm - 5.00 pm Mon			
Dante's Divine Comedy depicts the three realms of the medieval 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 our guide, we will explore 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 will be introduced to a wide variety of theological texts (all in English translation), and will be 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 Theological Studies, BD 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%			
Lecturer(s)/Tutor(s):	Dr H Corbett			

DI4915 Theology Special Topic - Kierkegaard and Theology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
Søren Kierkegaard is one of the most exciting and influential philosophers of the last 200 years. He was also one of the most original Christian thinkers of this same period. This module will explore the key themes in his thought that bear on the task of Christian theology. In particular, we shall consider his account of what it means to become a Christian and how this process takes place. In the course of this we shall consider his analyses of human freedom and responsibility, sin and despair, faith, love, passion and the imagination as also his profound and highly pertinent insights into Christology, revelation, prayer, and hermeneutics.				
Programme module type:	Optional for Theological Studies, BD and MTheol			
Pre-requisite(s):	normally DI3703 and DI3704			
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 Co-ordinator:	Professor A Torrance			
Lecturer(s)/Tutor(s):	Dr A Torrance			

DI4936 Theology and Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm - 5.00 pm Thu			
This interdisciplinary module is concerned with the diverse ways in which literature may serve as a text 'of' and 'for' theology. It will introduce students to a variety of theoretical approaches and then will focus on a range of key theological issues, which will be discussed in relation to a selection of 'great texts' from different genres and periods of literature, such as The Divine Comedy, Paradise Lost, Lyrical Ballads, In Memoriam, and Four Quartets.				
Programme module type:	Optional for Theological Studies, BD and MTheol			
Pre-requisite(s):	normally DI3703 and DI3704			
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 Co-ordinator:	Dr G Hopps			
Lecturer(s)/Tutor(s):	Dr G Hopps			

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Interdisciplinary (ID) module

ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr E Stoddart		
Lecturer(s)/Tutor(s):	Dr E Stoddart		

School of Economics & Finance

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.

Economics (EC) modules

EC3202 Econometrics 1			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Honours Programme.		
Planned timetable:	To be arranged.		
This module introduces the student to the classical linear regression model and some extensions. The module also develops the student's understanding of the key concepts of statistical analysis and their application in economics. The skills that the student will acquire include the ability to estimate, interpret and test economic relationships. These are essential components of the toolkit of a trained economist and are transferable skills in relation to many types of career.			
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, BA (Int Hons) Economics for students who enter Senior Honours in 2015/6		
Pre-requisite(s):	EC2001, EC2002, EC2003, EC2004	Anti-requisite(s):	EC3301
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 8 weeks), plus 1 office hour (x 12 weeks), 6 x 1-hour tutorials and 3 x 2-hour laboratories.		
	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-hour Written Examination = 70%, Coursework (Class Test) = 30%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr P Macmillan		
Lecturer(s)/Tutor(s):	Dr P Macmillan		

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EC3301 Econometrics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	EC2001, EC2002, EC2003, EC2004			
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 5 weeks) 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 47 hours		Guided independent study: 153 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 Co-ordinator:	Dr P Macmillan			
Lecturer(s)/Tutor(s):	Dr P Macmillan			

EC3302 Decision and Game Theory				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	EC2001, EC2002, EC2003, EC2004	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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr M La Manna			
Lecturer(s)/Tutor(s):	Dr M La Manna			

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EC3303 Economic Growth			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6		
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):	EC2001, EC2002, EC2003, EC2004	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: 37 hours	Guided independent study: 163 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 Co-ordinator:	Dr R Stefanski		
Lecturer(s)/Tutor(s):	Dr R Stefanski		

EC3304 Mathematical Economics			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Planned timetable:	To be arranged.		
<p>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.</p>			
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Pre-requisite(s):	EC2001, EC2002, EC2003, EC2004	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: 37 hours	Guided independent study: 163 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 Co-ordinator:	Dr M Zhang		
Lecturer(s)/Tutor(s):	Dr M Zhang		

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EC3305 Incentives and Contracts				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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 will be discussed with emphasis on their applications for the understanding the internal organization 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):	EC2001, EC2002, EC2003, EC2004	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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr L Bridet			
Lecturer(s)/Tutor(s):	Dr L Bridet			

EC3306 Economic Fluctuations				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	EC2001, EC2002, EC2003, EC2004	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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Prof A Sutherland			
Lecturer(s)/Tutor(s):	Prof A Sutherland			

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EC4201 Economic Analysis			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Honours Programme.		
Planned timetable:	10.00 am Mon, Tue and Wed		
<p>The module is designed to provide an advanced understanding of economic theory with applications, covering both macroeconomics and microeconomics. The Macroeconomics part of the module has three main components. The first group of lectures focuses on analysing the main features of three general models of growth theory, namely the Solow model, the Ramsey model and endogenous growth models, the main focus of interest of the second group of lectures is advanced real business cycle theory and its applications. The final group of lectures aims to introduce the main framework of modern macroeconomic analysis, namely dynamic stochastic general equilibrium models, and to relate its applications to recent economic crises. The Microeconomics part of the module covers selected topics in game theory supplied with insightful applications. Game theory is the study of rational behavior in decision making situations with multiple players having conflicting interests, where the payoff of each player depends not only on his own actions but also on the actions of others, and thereby on the nature of strategic interactions between players. Game theory has important applications in economics, and in the fields of political science, international relations, business administration, law and biology.</p>			
Programme module type:	Compulsory for Single Honours Economics, Financial Economics, BA (Int Hons) Economics. Optional for Joint Honours Economics		
Pre-requisite(s):	EC3201, EC3202, EC3203	Required for:	EC4204
Learning and teaching methods and delivery:	Weekly contact: 27 lectures over 11 weeks, plus 1 office hour (x 12 weeks) plus 8 x 1-hour tutorials.		
	Scheduled learning: 47 hours	Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 3-hour Written Examination = 70%, Coursework = 30%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr O Senay		
Lecturer(s)/Tutor(s):	Dr O Senay, Dr K Ozbek		

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4203 Contemporary Issues				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Honours Programme.			
Planned timetable:	10.00 am Thu and Fri			
The module is designed to show students how to use economic analysis to understand a range of contemporary economic policy issues. It will be taught by a number of different staff and will cover a range of topics including: "Fat taxes", "Tackling Corporate Crime" "The Debate on Basic Income" and "Austerity, Growth and Debt: problems in the European Union".				
Programme module type:	Compulsory for Single Honours Economics. Optional for Applied Economics, Joint Honours Economics, Financial Economics Optional for other Joint and 'With' degrees and BA (Intl Hons) Economics			
Pre-requisite(s):	EC3201, EC3202, EC3203			
Learning and teaching methods and delivery:	Weekly contact: 20 hours of lectures over 11 weeks, plus 1 office hour (x 12 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Savorelli			
Lecturer(s)/Tutor(s):	Prof A Hughes-Hallett, Dr J Jin, Dr L Savorelli, Prof D Ulph			

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EC4204 Financial Economic Theory			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Honours Programme.		
Planned timetable:	12.00 noon Mon, Wed, Fri		
<p>This module follows EC4501 and EC4502 and completes the Honours degree in Financial Economics. EC4204 includes an introduction to the theoretical development of asset pricing models and extensive coverage of the theoretical foundations of option pricing. Whereas in EC4501 and EC4502 the student solved small binomial option pricing problems, in EC4204 the foundations of the binomial approach and its extensions to multinomial option pricing and, ultimately, the derivation of the Black-Scholes formula are studied. EC4501 and EC4502 emphasised the solution of small case-study like financial problems via the application of the standard CAPM pricing model. In EC4204 we derive the CAPM model from its foundations and study its theory in detail. The theoretical and empirical implications of the CAPM and other pricing models for evaluating portfolio performance are also studied in depth.</p>			
Programme module type:	Compulsory for Financial Economics Optional for Economics		
Pre-requisite(s):	EC4501, EC4502, EC4201, EC4202		
Learning and teaching methods and delivery:	Weekly contact: 27 hours of lectures and seminars over 11 weeks, plus 1 office hour (x 12 weeks).		
	Scheduled learning: 39 hours	Guided independent study: 261 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%		
	As used by St Andrews: 3-hour Written Examination = 70%, Coursework = 30%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr G Shea		
Lecturer(s)/Tutor(s):	Dr G Shea		

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EC4205 Economic Policy			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Applied Economics Honours Programme only.		
Planned timetable:	4.00 pm - 6.00 pm Tue		
<p>The aim of this module is to develop a tool set to understand economic policy through economics. The focus of the module will be largely, though not exclusively, empirical. We will first present a number of approaches economists use to empirically evaluate the effectiveness of policies. We will discuss the strengths and weaknesses of these approaches, and explore each one with case studies drawn from the economics of education. In the second part of the course we will turn our attention to current policy issues in development economics. We will explore each issue, first in abstract, and then through a case study.</p>			
Programme module type:	Compulsory for Applied Economics		
Pre-requisite(s):	EC3201, EC3202, EC3203	Anti-requisite(s):	EC4510
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, plus 1 office hour (x 12 weeks) plus 5 x 1-hour tutorials.		
	Scheduled learning: 35 hours	Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 15%, Coursework = 15%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr M Leighton		
Lecturer(s)/Tutor(s):	Dr M Leighton, Dr V Saxena		

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EC4300 Dissertation in Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Economics and Financial Economics Honours Programmes only.			
Planned timetable:	None, but attendance at the departmental research colloquia required.			
This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply economic and/or statistical and econometric analysis to a selected topic in economics. The dissertation must be on a topic in economics selected by the student and agreed with their supervisor and the Director of Teaching. The maximum number of words allowed is 15,000 for the EC4300 dissertation but students will be advised to cover the topic in around 10,000-12,000 words.				
Programme module type:	Compulsory for BA (Int Hons) Economics. Optional for Single Honours Economics, Financial Economics			
Pre-requisite(s):	EC3201, EC3202, EC3203	Anti-requisite(s):	EC4499	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 3 supervision meetings per semester.			
	Scheduled learning: 5 hours		Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Dissertation = 85%, Coursework = 15%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

EC4302 Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 for the last time - Available only to students in the second year of the Single Applied and Joint Honours Programmes only.			
Planned timetable:	None, but attendance at the departmental research colloquia required.			
This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply economic and quantitative analysis to a selected topic in economics. The project must be on a topic in economics chosen by the student and approved by their supervisor and the Director of Teaching. For the EC4302 project the maximum number of words allowed is 10,000 but students will be advised to cover the topic in around 8,000 words. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Programme module type:	Optional for Applied Economics, Joint Honours Economics			
Pre-requisite(s):	EC3201, EC3202, EC3203	Anti-requisite(s):	EC4499	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 3 supervision meetings per semester.			
	Scheduled learning: 5 hours		Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Dissertation = 85%, Coursework = 15%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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EC4401 Advanced Econometrics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	EC3202 (for 2015/6) EC3301 (from 2016/7)	Anti-requisite(s):	EC4202, EC4601	
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Prof R McCrorie			
Lecturer(s)/Tutor(s):	Prof R McCrorie			

EC4402 Economic History (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 37 hours		Guided independent study: 157 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 Co-ordinator:	Dr A Trew			
Lecturer(s)/Tutor(s):	Dr A Trew			

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EC4403 Health and Education (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr M Leighton			
Lecturer(s)/Tutor(s):	Dr M Leighton			

EC4405 Economics of the Environment (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Fri			
<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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr J Jin			
Lecturer(s)/Tutor(s):	Dr J Jin			

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EC4406 Experimental Economics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Prof M Costa-Gomes			
Lecturer(s)/Tutor(s):	Prof M Costa-Gomes			

EC4407 Behavioural Economics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr G Gerasimou			
Lecturer(s)/Tutor(s):	Dr G Gerasimou			

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EC4408 Industrial Organisation and Regulations (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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):	EC4608, EC4508			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Prof D Ulph			
Lecturer(s)/Tutor(s):	Prof D Ulph			

EC4409 International Macroeconomics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr G Mitka			
Lecturer(s)/Tutor(s):	Dr G Mitka			

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EC4410 International Trade (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>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.</p>				
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr J Jin			
Lecturer(s)/Tutor(s):	Dr J Jin			

EC4411 Economics of Labour (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>Core microeconomics modules provide the basic tools for the understanding of labour economics. This module aims to build upon these foundations, examining in some detail a series of topics of interest within the labour economics field. These include the functioning of labour markets, and how wages, employment and unemployment are determined. In particular, the role of differing institutions across countries and how they influence labour market outcomes will be explored.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4511, EC4611			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr I Merkurieva			
Lecturer(s)/Tutor(s):	Dr I Merkurieva			

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EC4413 European Macroeconomics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	(availability to be confirmed)			
Planned timetable:	To be arranged.			
<p>The purpose of the module is to explore the macroeconomic and monetary issues involved in European economic integration. After a historical introduction focused on the question of why the members of the EC/EU have sought 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.</p>				
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

EC4414 Macroeconomic Policy				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>The module is designed to provide a specialised understanding of monetary policy issues. The lectures cover the aims of monetary policy, the use of alternative monetary policy frameworks, the issue of central bank independence, and current topics such as interest rate smoothing. The last part of the module surveys the experience of major countries with different policy frameworks over the last quarter of a century.</p>				
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Prof A Hughes-Hallett			
Lecturer(s)/Tutor(s):	Prof A Hughes-Hallett, Dr O DeGroot, Dr A Trew			

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EC4415 Public Economics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr L Bridet			
Lecturer(s)/Tutor(s):	Dr L Bridet			

EC4416 Innovation Economics (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
Innovation is both a major contributory factor in economic growth and a crucial element of competitive behaviour and policy. The aim of this module is to introduce students to recent developments in the economic theory of innovation. The module, which is analytical in nature, examines the incentives firms have to innovate by the introduction of new products and new processes and, in particular, how this is affected by strategic competitive conditions.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	EC3301	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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr M La Manna			
Lecturer(s)/Tutor(s):	Dr M La Manna			

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EC4417 Financial Economics: Asset Pricing (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, 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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr L Barbopoulos			
Lecturer(s)/Tutor(s):	Dr L Barbopoulos			

EC4418 Financial Economics: Corporate Finance (20)				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, 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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr G Shea			
Lecturer(s)/Tutor(s):	Dr G Shea			

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EC4420 Inequality and Redistribution				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>The module is designed to foster an understanding of economic inequality both from theoretical and practical perspectives. It mainly aims to convey how economists approach and deal with inequalities of income, wealth and consumption 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.</p>				
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr T Cuhadaroglu			
Lecturer(s)/Tutor(s):	Dr T Cuhadaroglu			

EC4421 Political Economy				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4621			
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr M Negri			
Lecturer(s)/Tutor(s):	Dr M Negri			

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EC4430 Portfolio Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
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.				
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: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr L Barbopoulos			
Lecturer(s)/Tutor(s):	Dr L Barbopoulos			

EC4499 Dissertation in Economics				
SCOTCAT Credits:	40	SCQF Level 10	Semester:	Whole Year
Academic year:	2016/7			
Availability restrictions:	Available only to students in the second year of the Single Honours Economics or Single Honours Financial Economics Programmes.			
Planned timetable:	None, but attendance at the departmental research colloquia required.			
This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply economic and/or econometric analysis to a topic in economics. The dissertation is expected to present original research on a question determined by the student after consultation with their dissertation supervisor. A preliminary outline of it should have been approved within the first week of the Martinmas semester by the Director of Teaching and by the dissertation supervisor. The maximum number of words allowed is 15,000 but students will be advised to cover the topic in around 12,000.				
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):	EC4300, EC4302,	
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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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EC4510 Issues in Economic Policy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 for last time			
Availability restrictions:	2015-6 only - Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	4.00 pm - 6.00 pm Tue			
The aim of this module is to develop a tool set to understand economic policy through economics. The focus of the module will be largely, though not exclusively, empirical. We will first present a number of approaches economists use to empirically evaluate the effectiveness of policies. We will discuss the strengths and weaknesses of these approaches, and explore each one with case studies drawn from the economics of education. In the second part of the course we will turn our attention to current policy issues in development economics. We will explore each issue, first in abstract, and then through a case study.				
Programme module type:	Optional for Economics, Financial Economics			
Pre-requisite(s):	EC2001, EC2002, EC2003, EC2004	Anti-requisite(s):	EC4205	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 9 weeks), 4 x 1 hour tutorials, plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Leighton			
Lecturer(s)/Tutor(s):	Dr M Leighton, Dr V Saxena			

EC4601 Advanced Econometrics (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Fri			
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			
Anti-requisite(s):	EC4202, EC4401, EC4602			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	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 = 70%, Coursework = 30%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof R McCrorie			
Lecturer(s)/Tutor(s):	Prof R McCrorie			

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EC4602 Economic History (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
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):	EC4402			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr A Trew			
Lecturer(s)/Tutor(s):	Dr A Trew			

EC4603 Health and Education (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4202, EC4403 EC4523			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr M Leighton			
Lecturer(s)/Tutor(s):	Dr M Leighton			

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EC4605 Economics of the Environment (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
The aim of this module is to introduce basic ideas, methods and problems of environmental economics and policy building on current scientific evidence and economics. The political economy background will be emphasized. Specific problems of developing countries and their relations to the developed world will be studied.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4505, EC4405			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr J Jin			
Lecturer(s)/Tutor(s):	Dr J Jin			

EC4606 Experimental Economics (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
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 course 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.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4506, EC4406			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Prof M Costa-Gomes			
Lecturer(s)/Tutor(s):	Prof M Costa-Gomes			

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EC4607 Behavioural Economics (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
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, EC4407			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	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 = 60%, Coursework (incl. 1 Class Test) = 40%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr G Gerasimou			
Lecturer(s)/Tutor(s):	Dr G Gerasimou			

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4608 Industrial Organisation and Regulations (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
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):	EC4408, EC4508			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Prof D Ulph			
Lecturer(s)/Tutor(s):	Prof D Ulph			

EC4609 International Macroeconomics (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module provides a comprehensive treatment of selected aspects of international macroeconomics. We make 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):	EC4409, EC4509			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr G Mitka			
Lecturer(s)/Tutor(s):	Dr G Mitka			

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4610 International Trade (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4410			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr J Jin			
Lecturer(s)/Tutor(s):	Dr J Jin			

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4611 Economics of Labour (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
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):	EC4411, EC4511			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr I Merkurieva			
Lecturer(s)/Tutor(s):	Dr I Merkurieva			

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4613 European Macroeconomics (15)			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 (TBC) only - Available only to students in the second year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>The purpose of the module is to explore the macroeconomic and monetary issues involved in European economic integration. After a historical introduction focused on the question of why the members of the EC/EU have sought 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.</p>			
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Anti-requisite(s):	EC4413, EC4513		
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks), 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 34 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 = 100%		
Module Co-ordinator:	TBC		
Lecturer(s)/Tutor(s):	TBC		

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4615 Public Economics (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
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):	EC4415, EC4515			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr L Bridet			
Lecturer(s)/Tutor(s):	Dr L Bridet			

EC4616 Innovation Economics (15)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
Innovation is both a major contributory factor in economic growth and a crucial element of competitive behaviour and policy. The aim of this module is to introduce students to recent developments in the economic theory of innovation. The module, which is analytical in nature, examines the incentives firms have to innovate by the introduction of new products and new processes and, in particular, how this is affected by strategic competitive conditions.				
Programme module type:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics			
Anti-requisite(s):	EC4416, EC4503			
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 34 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 = 100%			
Module Co-ordinator:	Dr M La Manna			
Lecturer(s)/Tutor(s):	Dr M La Manna			

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4617 Financial Economics: Asset Pricing (15)			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.		
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:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Anti-requisite(s):	EC4501, EC4417		
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).		
	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 = 60%, Coursework (incl. 2 Class Tests) = 40%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr L Barbopoulos		
Lecturer(s)/Tutor(s):	Dr L Barbopoulos		

Economics & Finance - Honours Level - 2015/6 - September 2015

EC4618 Financial Economics: Corporate Finance (15)			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Availability restrictions:	Available 2015/6 only - Available only to students in the second year of the Honours Programme.		
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:	Optional for all Economics degrees, Financial Economics, BA (Int Hons) Economics		
Anti-requisite(s):	EC4418, EC4502		
Learning and teaching methods and delivery:	Weekly contact: 18 hours of lectures over 11 weeks, 1-hour tutorial (x 4 weeks) plus 1 office hour (x 12 weeks).		
	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 = 60%, Coursework (inc. 2 Class Tests) = 40%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr G Shea		
Lecturer(s)/Tutor(s):	Dr G Shea		

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 properly qualified to enter the module.

English (EN) modules

EN3111 Beowulf			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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: 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 Co-ordinator:	Dr C Rauer		
Lecturer(s)/Tutor(s):	Dr C Rauer		

English - Honours Level - 2015/6 - August 2015

EN3112 Chaucer's Canterbury Tales				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am and 12.00 noon 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 per week (either 1 x 2-hour seminar or 1 lecture and 1 seminar), and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Connolly			
Lecturer(s)/Tutor(s):	Dr M Connolly			

EN3113 Unreformed Scotland: Older Scots Literature to 1560				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M R Purdie			
Lecturer(s)/Tutor(s):	Dr M R Purdie			

EN3141 Tragedy in the Age of Shakespeare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Tue and 2.00 pm Thu			
The aim of the module is to develop an understanding of different versions of tragedy in the English Renaissance. (Group B)				
Programme module type:	Group B Optional for English and 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: 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 Co-ordinator:	Dr T Johnson			
Lecturer(s)/Tutor(s):	Dr T Johnson			

EN3142 Renaissance Literature: Texts and Contexts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Tue and 12.00 noon Thu			
The aim of the module is to develop an understanding of some major literary texts of the Renaissance both in formalist terms and in terms of their historical and cultural context. Authors considered will include Spenser, Shakespeare, Jonson, Donne, Herbert, Marvell and Milton. (Group B)				
Programme module type:	Group B Optional for English and 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: 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 Co-ordinator:	Prof N P P Rhodes			
Lecturer(s)/Tutor(s):	Prof N P P Rhodes			

English - Honours Level - 2015/6 - August 2015

EN3162 Revolution and Romanticism: Literature, History and Society (1789-1805)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am Tue and 10.00 am Thu			
This module provides wide-ranging reading in the literature of the 1790s, with emphasis on the interaction between literature, history and political revolution during this decade. (Group C)				
Programme module type:	Group B Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2 hours per week: seminars, lectures, or tutorials, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof N H Roe			
Lecturer(s)/Tutor(s):	Prof N H Roe			

EN3163 The Younger Romantics: Poetry and Prose (1810 - 1830)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am Thu and 11.00 am Fri			
This module aims to acquaint students with the principal poetic and non-fictional prose texts of the second generation of English Romantic writers. (Group C)				
Programme module type:	Group C Optional for English and 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: 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 Co-ordinator:	Prof N H Roe			
Lecturer(s)/Tutor(s):	Prof N H Roe			

EN3164 Self and Society in the Victorian Novel				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm Tue and 10.00 am Fri			
This module is based on the close study of (typically) five Victorian novels. It will concentrate on two related thematic issues: the sense of social and historical change, and the search for coherence and stability in the self. Students will examine the way the novel both reflected and contributed to contemporary debate on such topics as the re-emergence of feminist argument, urbanisation, and evolutionary theory. Attention will also be given to the formal inventiveness of the Victorian novel, in particular the use of non-realist elements, and the different roles given to the narrators. (Group C)				
Programme module type:	Group C Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per week, 1 fortnightly seminar and 1 fortnightly tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr G Tate			
Lecturer(s)/Tutor(s):	Dr G Tate			

EN3201 Literary Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Fri			
This module is designed to allow students to acquaint themselves with the principal critical theories which have underlain the production of Western literary work from its beginnings in Greek antiquity. It forms part of the study of literary history available to students in the School and the Faculty. (Group E)				
Programme module type:	Group E Optional for English			
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: 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 Co-ordinator:	Dr A Raychaudhuri			
Lecturer(s)/Tutor(s):	Dr A Raychaudhuri			

English - Honours Level - 2015/6 - August 2015

EN3202 Literature and Ecology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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: 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 Co-ordinator:	Prof J Burnside			
Lecturer(s)/Tutor(s):	Prof J Burnside			

EN3207 Twentieth-Century British and Irish Drama				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 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 Co-ordinator:	Dr S Haddow			
Lecturer(s)/Tutor(s):	Dr S Haddow			

EN3208 Scottish Verse				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am Wed and 10.00 am Fri			
This module provides a survey of Scottish poetry that includes some detailed engagement with major poets such as Dunbar, Burns and MacDiarmid, as well as the opportunity to work with living writers. (Group E)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture/seminar and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof R Crawford			
Lecturer(s)/Tutor(s):	Prof R Crawford			

EN3212 Modernist Literature: Making It New?				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 4.00 pm Fri			
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: 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 Co-ordinator:	Dr C M Alt			
Lecturer(s)/Tutor(s):	Dr C M Alt			

English - Honours Level - 2015/6 - August 2015

EN3213 Postcolonial Literature and Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	12.00 noon Mon and 12.00 noon Fri			
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: 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 Co-ordinator:	Dr L M Burns			
Lecturer(s)/Tutor(s):	Dr L M Burns			

EN3214 The Country and the City in Scottish Literature				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Planned timetable:	10.00 am - 11.00 am Mon and 10.00 am - 11.00 am Wed			
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)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004		Anti-requisite(s):	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr P Mackay			
Lecturer(s)/Tutor(s):	Dr P Mackay			

EN4311 Old English Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 4.00 pm Mon			
A wide-ranging study of Old English poetry, including heroic and elegiac works, wisdom-poetry, riddles, and religious verse. The texts chosen for study reflect the variety and quality of Old English poetry, and reveal ways in which traditional Germanic forms and themes were adapted within the literate Christian culture of Anglo-Saxon England. (Group A)				
Programme module type:	Group A Optional for English and BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004	Anti-requisite(s):	EN4212	
Learning and teaching methods and delivery:	Weekly contact: 2 tutorials, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Rauer			
Lecturer(s)/Tutor(s):	Dr C Rauer			

EN4312 Authorising English: Society, Gender and Religion in Late Mediaeval English Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	3.00 pm and 4.00 pm Mon			
The module examines the literature composed in England during the later Middle Ages with an emphasis on the years around 1400 - a period in which ideas of 'English literature' and the 'English language' can be seen under construction. The module offers an introduction to the genres of Middle English literature (particularly lyric poetry, romance and mystical writing). And it examines the interrelationship between textual practice and the cultural processes that generated imaginative writing. Special attention will be paid to the preoccupation of authors with a world which they saw as moving towards moral, political and religious complexity and uncertainty. Also to be explored will be the implication in turbulent ideological debate of the use of English in texts many of which are written for laypeople and women (Group A)				
Programme module type:	Group A Optional for English			
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 Co-ordinator:	Dr I R Johnson			
Lecturer(s)/Tutor(s):	Dr I R Johnson			

English - Honours Level - 2015/6 - August 2015

EN4314 Old English Afterlives: Literary Anglo-Saxonism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	3.00 - 5.00 pm Tue			
<p>On this module students will study the relationship between Old English literary culture and the modern imagination. Poems, novels and films from the nineteenth to the twenty-first centuries will be studied alongside Old English 'sources' such as Beowulf and Bede, and students will produce their own examples of Anglo-Saxonist creative work as well as investigating that of writers from Wordsworth to Heaney. The module focuses on literary technique, as well as on the history and ideology of Anglo-Saxonism. It is recommended that students have previously taken an Old English beginner's course (such as EN2003), as Old English texts are studied rigorously in the original language. (Group A)</p>				
Programme module type:	Group A 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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (1 x formative assessed Essay = required but zero credits, 1 x 2,000-2,500-word Critical Essay = 25%, 1 x Class Translation Test = 25%, Portfolio = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C S Jones			
Lecturer(s)/Tutor(s):	Dr C S Jones			

EN4315 Apocalyptic Literature in Early English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C S Jones			
Lecturer(s)/Tutor(s):	Dr C S Jones			

EN4316 Courtly Literature in Middle English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	11.00 am Tue and 12.00 noon Thu			
This module explores the idea of 'courtly literature' through detailed study of some of the most influential poems in Middle English. Alongside Chaucer's <i>Troilus and Criseyde</i> , students might read works such as Gower's <i>Confessio Amantis</i> , Sir Gawain and the Green Knight or <i>The Floure and the Leafe</i> . The aim of the module is to study fewer, larger texts in greater depth, allowing students to get to grips with the depth and complexity of these canonical works and the literary-critical issues they raise. A central critical issue to be explored is the heated modern debate over the notion of 'courtly love'. (Group A)				
Programme module type:	Group A Optional for English			
Pre-requisite(s):	EN2003, EN2004 (for St Andrews students - may be waived for JSA students).			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M R Purdie			
Lecturer(s)/Tutor(s):	Dr M R Purdie			

EN4342 Restoration Drama in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Mon			
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)				
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: 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 Co-ordinator:	Dr M C Augustine			
Lecturer(s)/Tutor(s):	Dr M C Augustine			

English - Honours Level - 2015/6 - August 2015

EN4344 Early English Romance Comedy: Shakespeare and his Contemporaries				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm Mon and 11.00 am Wed			
Students will consider the dramatic rendering of romance material in the late sixteenth and early seventeenth centuries alongside contemporary writing on dramatic theory and information about staging alongside contemporary poetry and prose fiction. About half the texts studied will be by Shakespeare. (Group B)				
Programme module type:	Group B Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar/tutorial and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A L Davis			
Lecturer(s)/Tutor(s):	Dr A L Davis			

EN4345 Hard Cases: Literary Complexity from Donne to Pope				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	2.00 pm - 4.00 pm Mon			
During the English Renaissance it was widely understood that literature ought to 'instruct by pleasing'. This module is concerned with those writers and texts that seem to ignore this imperative. Why, we will ask, do writers from John Donne to Alexander Pope go out of their way to challenge or baffle or confuse or overwhelm their readers? What are the forms, conditions, and uses of literary complexity? This module might alternatively be called 'How To Read Hard Renaissance Texts.' Likely authors studied will include Donne, Marvell, Cavendish, Milton, Dryden, Swift, Pope. (Group B)				
Programme module type:	Group B Optional for English			
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 = 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 Co-ordinator:	Dr M C Augustine			
Lecturer(s)/Tutor(s):	Dr M C Augustine			

EN4346 The Early Tudors: Literature and Reformation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am Tue and Thu			
This module explores poetry, prose and drama from the reign of Henry VIII through to the early years of Elizabeth I's rule. It will examine the remodelling of literary forms in a period of religious and political 'reformation', combining broad cultural and historical perspectives with in-depth textual analysis. Key texts include: More's Utopia; the poetry of Wyatt, Surrey and Skelton; early sixteenth-century religious verse; and the allegorical drama Everyman. Students will have the opportunity to write on the reception of this period in film, novels, the visual arts, etc. (Group B)				
Programme module type:	Group B Optional for English			
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: 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 Co-ordinator:	Dr A L Davis			
Lecturer(s)/Tutor(s):	Dr A L Davis			

EN4347 Milton				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	11.00 am - 1.00 pm Mon			
This module covers the writings of John Milton, in verse and in prose, from the beginning of his career to the end and across the tumultuous decades of the seventeenth century through which Milton lived. In every instance we will try and combine faithful attention to the text with a keen awareness of how Milton's contexts - literary, historical, and otherwise - shaped and were shaped by Milton's work. 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)				
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: 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Augustine			
Lecturer(s)/Tutor(s):	Dr M Augustine			

English - Honours Level - 2015/6 - August 2015

EN4348 Bodies and Selves in the Renaissance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	2.00 pm Thu and 3.00 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 (x 11 week) and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Shinn			
Lecturer(s)/Tutor(s):	Dr A Shinn			

EN4361 The Novels of Jane Austen in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Garner			
Lecturer(s)/Tutor(s):	Dr K Garner			

EN4362 Mind, Body and Soul: Literature in the Enlightenment				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm Tue and 2.00 pm Thu			
The Enlightenment is a contested historical category, with arguments about literature and philosophy contributing to the definition of what enlightens a human subject. As a result of reading major texts of poetry, fiction and non-fiction from the Eighteenth Century, students on this module will be encouraged to explore the ways in which literature constructs relationships between the rational, emotional, spiritual and physical aspects of human life. They will also be invited to ask how the physical, emotional and spiritual impinge upon rational accounts of enlightenment, and will study the way in which literary texts such as Rochester's poems, Pope's Essay on Man, and Sterne's Tristram Shandy complicate accounts of the age of reason given from the perspective of the history of ideas. (Group C)				
Programme module type:	Group C 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: 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 Co-ordinator:	Dr T Jones			
Lecturer(s)/Tutor(s):	Dr T Jones			

EN4363 Romantic Writing and Women				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm Tue and 4.00 pm Fri			
The work of Blake, Wordsworth and Shelley is well known to students of Romanticism - but what of their female contemporaries? This module explores the richly varied and often exciting fiction, poetry and non-fictional prose emanating from the pen of women writers in the aftermath of the French Revolution, showing how a 'revolution in female manners' sprang out of the momentous changes of post-1789 European society. (Group C)				
Programme module type:	Group C Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture/seminar and 1 tutorial/seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Manly			
Lecturer(s)/Tutor(s):	Dr S Manly			

English - Honours Level - 2015/6 - August 2015

EN4364 The Art of Victorian Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Fri			
<p>This module explores the richness and diversity of poetry written and/or published in the period 1837-1901. Covering a range of major works, it examines the new demands made of poetry in this era, and the different ways in which poets respond to the challenge of skepticism and disagreement about poetry's place in an industrialised society. The structure of the module is both chronological and thematic, addressing issues such as gender, class, religion, and nation in relation to Victorian poetry. Throughout, the module uses the background of visual art - including poetry book illustration, Victorian paintings based on subjects from Victorian poetry, and artworks commemorated in Victorian poems - to highlight issues regarding poetry's status, aims, and appearance in the period. Looking at the art of poetry in relation to visual art, it asks how Victorian poetry aligns itself with broader aesthetic debates about form, function, and representation. (Group C)</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: 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 Co-ordinator:	Dr C Gill			
Lecturer(s)/Tutor(s):	Dr C Gill			

EN4365 Literature and Childhood in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
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: 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 Co-ordinator:	Dr S C Manly			
Lecturer(s)/Tutor(s):	Dr S C Manly			

EN4366 Byron's Long Poems and Dramas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am - 12.00 noon Mon			
This module provides an opportunity to study the poetry and drama of Lord Byron in depth, and to explore what made him one of the most complex, demanding, and controversial writers of the Romantic period. Students will study Byron's major works in their complete form to enable a uniquely detailed level of critical and textual engagement.(Group C)				
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: 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 Co-ordinator:	Dr B Hewitt			
Lecturer(s)/Tutor(s):	Dr B Hewitt			

EN4367 Romantic Gothic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am Mon and 11.00 am Mon.			
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)				
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: 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 Co-ordinator:	Dr K Garner			
Lecturer(s)/Tutor(s):	Dr K Garner			

English - Honours Level - 2015/6 - August 2015

EN4368 Read all about it! Victorian Literature and the Press				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am Fri and 12.00 noon Fri.			
<p>The nineteenth century ushered in the era of 'the newspapers for the million' when newspapers and periodicals were brought within the reach of unprecedented numbers of readers. This module will explore the impact of the nineteenth-century information and communications revolution on the literature of the period, from novels serialised in periodicals to the Sherlock Holmes stories published in <i>The Strand</i>. As the future of newspapers and the material book continues to be debated in our own digital age, this module will take a timely look at their interrelated history. (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 weekly + 1 x 2-hour practical class during the semester.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Gill			
Lecturer(s)/Tutor(s):	Dr C Gill			

EN4398 Special Topic in English				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Fri			
<p>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.</p>				
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 individual supervision over the 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Rauer			
Lecturer(s)/Tutor(s):	Dr C Rauer			

EN4399 Dissertation in English				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Fri			
<p>This module provides an opportunity to undertake a sustained piece of independent work, on a topic chosen by the student in consultation with a member of the School, leading to the presentation of an essay not more than 10,000 words in length. The dissertation may consist of a critical discussion or of a project based on the extensive collection of electronic texts currently available to the School. It will involve personal reading and research and will develop a range of skills, including investigative reading, use of information technology, the exploitation of library and internet resources, and the organisation and presentation of evidence and argument. Guidance will be given on scholarly conventions and basic research methods. (Group D)(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Single Honours English and 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: 6 hours per semester + 1 consultation hour weekly.			
	Scheduled learning: 17 hours		Guided independent study: 283 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr P Mackay			
Lecturer(s)/Tutor(s):	Team taught			

EN4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	<u>1</u>
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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. (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 undergraduate degrees 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

English - Honours Level - 2015/6 - August 2015

EN4404 Shakespeare and Film				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	3.00 pm - 4.00 pm Tue, plus film viewing (from 2.00 pm Fri).			
A study of filmed versions of Shakespeare's plays (including adaptations) from the silent era to the present, including an introductory exploration of film history, theory and practice. There will be a film viewing each week and students will have the opportunity to map out a design for filming a scene from one of the plays as part of their assessment. (Group E)				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture plus 1 film viewing session, and 2 optional consultative hours.			
	Scheduled learning: 66 hours		Guided independent study: 234 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 Co-ordinator:	Dr A Shinn			
Lecturer(s)/Tutor(s):	Dr A Shinn			

EN4405 Contemporary Poetry in Great Britain and Ireland				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 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 Co-ordinator:	Prof D Paterson			
Lecturer(s)/Tutor(s):	Prof D Paterson			

EN4406 Contemporary British Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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: 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 Co-ordinator:	Dr J Purdon			
Lecturer(s)/Tutor(s):	Dr J Purdon			

EN4409 Modern American Drama				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am Tue and 12.00 noon Thu			
This module aims to introduce students to recent and contemporary American plays and to issues involved in the study of drama of any period. It is offered as a complement to EN3065 in which plays from the early and middle years of the twentieth century are studied. (Group E)				
Programme module type:	Group E Optional for English, section I for BA (Intl Hons) 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: 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 Co-ordinator:	Dr S Haddow			
Lecturer(s)/Tutor(s):	Dr S Haddow			

English - Honours Level - 2015/6 - August 2015

EN4415 T.S. Eliot				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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 Co-ordinator:	Prof R Crawford			
Lecturer(s)/Tutor(s):	Prof R Crawford			

EN4416 Virginia Woolf				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	3.00 pm - 5.00 pm Thu			
The writings of Virginia Woolf have had a major impact on the development of the English novel this century. This module involves detailed study of Woolf's most important fictional texts, and also considers her contribution to literary criticism and feminism through readings of selected extracts from her essays and diaries. The development of critical and communication skills through written and oral assignments will be an integral part of the module. (Group E)				
Programme module type:	Group E Optional for English, section II for BA (Intl Hons) English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar/tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Sutton			
Lecturer(s)/Tutor(s):	Dr E Sutton			

EN4417 Creative Writing 1				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am Wed and 12.00 noon Wed.			
EN4417 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	
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms R Thomas			
Lecturer(s)/Tutor(s):	Ms R Thomas			

EN4418 American Poetry since 1950				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 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 Co-ordinator:	Prof J P Burnside			
Lecturer(s)/Tutor(s):	Prof J P Burnside			

English - Honours Level - 2015/6 - August 2015

EN4419 American Fiction: Self and Nation (1865 - 1939)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm and 3.00 pm Fri			
This module provides an introduction to American fiction published between the end of the Civil War and the start of the Second World War. The module encourages students to evaluate the relationship between historical events (including Reconstruction, the 'Jazz Age', the Depression) and American literary movements and genres including the romance, the realist novel, the 'lost generation', the Harlem Renaissance and Southern Gothic. The module is centrally concerned with the conception and representation of American identity in fiction, and with heterogeneous definitions of 'the American novel'. These topics are considered in relation to the historical, social and geographical contexts of ten set texts. (Group E)				
Programme module type:	Group E Optional for English, 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: 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 Co-ordinator:	Dr J D Byatt			
Lecturer(s)/Tutor(s):	Dr J D Byatt			

EN4420 Creative Writing 2				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	EN4417
Learning and teaching methods and delivery:	Weekly contact: 1 seminar and 1 workshop, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms L G Glaister			
Lecturer(s)/Tutor(s):	Ms L G Glaister			

EN4422 Poetic Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Tue, 12 noon Thu			
<p>This module focuses on the history of thinking about poetic language, primarily in English-language traditions. Its core will be the study of twentieth- and twenty first-century theories of poetic language, but it will draw on theoretical and literary texts from the fourteenth century onwards. Poetic language is a contested topic in various established and emerging disciplines: literary linguistics, post-structuralist theory, philosophy of language, cognitive poetics, practice-led research. This module will draw together the study of poetic language from these various perspectives, and enable students to apply their theoretical studies to a wide range of poetic texts, and to appreciate how those texts complicate theoretical work. The module will help to bridge the gaps between different ways of studying poetry in the university context – theoretical, scholarly, creative. (Group E)</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003, EN2004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, 1 x 1 hour seminar and 2 optional consultative hours.			
	Scheduled learning: 50 hours		Guided independent study: 250 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Jones			
Lecturer(s)/Tutor(s):	Dr T Jones			

EN4423 Material Culture in Victorian and Modernist Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	3.00 - 5.00 pm Thu			
<p>This module will use material culture studies as a lens through which to consider the continuities and ruptures between Victorian and modernist attitudes towards material culture and the ways in which attitudes towards the material informed the stylistic choices of fiction writers in these periods. Victorian novelists typically filled their works with detailed descriptions of physical environments and objects in order to create the 'solidity of specification' characteristic of realist fiction; modernist writers rejected this method as 'materialist' and sought alternatives to the solidity of the triple-decker novels of the Victorians. However, this module will question such easy distinctions and consider both differences and continuities between Victorian and modernist writers' fascination with and suspicion of things. Authors studied may include Elizabeth Gaskell, Charles Dickens, Arthur Conan Doyle, E M Forster, and Virginia Woolf. (Group E)</p>				
Programme module type:	Group E Optional for English			
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 Co-ordinator:	Dr C M Alt			
Lecturer(s)/Tutor(s):	Dr C M Alt			

EN4424 Nationalists and Nomads: Contemporary World Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 4.00 pm Thu			
In an era of globalisation who 'speaks' the nation-state? How do communities negotiate their borders? Who 'belongs' and who decides? This module explores the changing nature of the nation-state and cultural expressions of belonging in the wake of decolonisation, independence, revolution and globalisation. Exploring a diverse range of texts drawn from across the globe, we will question the significance of 'world literature' and its relation to postcolonialism, 'cosmopolitanism' and national literatures. From the Haitian Revolution, independence movements, the Biafran war, Trujillo's Dominican dictatorship and the 'parsley massacre' to tourism and globalisation, this course is an opportunity to reflect on the pressures facing our global imagined communities in the late twentieth and twenty-first centuries.				
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: 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 Co-ordinator:	Dr L M Burns			
Lecturer(s)/Tutor(s):	Dr L M Burns			

EN4425 Celtic Modernisms				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am Tue and 11.00 am Thu			
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)				
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: 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 Co-ordinator:	Dr P MacKay			
Lecturer(s)/Tutor(s):	Dr P MacKay			

EN4426 Civil Wars on Page and Screen				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 4.00 pm Mon			
In this module we shall be looking at literary and cinematic representations of different instances of civil war and partition – the Irish Civil War (1922-1923), the Spanish Civil War (1936-1939), the conflict around the Indian/Pakistani partition (1947), the conflict between Israel and Palestine (1948-present), the Nigerian Civil War/Biafran War (1967-1970) and the Sri Lankan Civil War (1983-2009). In the process, we will focus on issues such as gender, 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. What are the specific issues that are associated with civil war? Is there a particular kind of literature that comes out of civil wars? What role does literature play in our perceptions of civil war? How might it help or hinder post-civil war reconciliation?				
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: 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 Co-ordinator:	Dr A Raychaudhuri			
Lecturer(s)/Tutor(s):	Dr A Raychaudhuri			

EN4427 The Shape of the Poem				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	3.00 pm - 5.00 pm Tue			
Why is iambic pentameter still so popular? Why are sonnets the shape they are? What makes poetry memorable? What do we mean by a poem's 'music'? This module will explain what makes poetic speech and form distinct, and examine the relationship between the forms we read on the page, and the real forces that shape the poem. The module will focus on examples from Anglo-Saxon poetry to the present day, and will draw on both traditional methods of analysis and recent linguistic theory to explain how the poem works.				
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: 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 Co-ordinator:	Prof D Paterson			
Lecturer(s)/Tutor(s):	Prof D Paterson			

English - Honours Level - 2015/6 - August 2015

EN4428 Imaging Ireland: Forging the Nation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 4.00 pm Tue.			
<p>This module focuses on the first half century of modern Irish literature and looks at that literature from the perspective of emerging notions of national identity in Ireland. We will track developments in Irish literature and culture from the closing decade of the nineteenth century through to the opening decades of the post-independence era. Writers to be studied will likely include W. B. Yeats, James Joyce, Elizabeth Bowen and Flann O'Brien. Genres studied will include drama, fiction and poetry. Key issues to be addressed will extend to: how is national culture defined and created; what is the political function of literature; what role does literature have in challenging state-sponsored cultural orthodoxies.</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: 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 Co-ordinator:	Prof A Murphy			
Lecturer(s)/Tutor(s):	Prof A Murphy			

EN4500 Playwriting				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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.</p>				
Programme module type:	Group E Optional for English			
Pre-requisite(s):	EN2003 and EN2004			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars and 2 optional consultative hours			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:				
Module Co-ordinator:	Mr O Emanuel and MS Z Harris			
Lecturer(s)/Tutor(s):	Mr O Emanuel and Ms Z Harris			

School of Geography & Geosciences

Earth Science (ES) modules

ES3001 Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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, 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 map and cross-section practicals (3 hours each) and lectures over 11 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 Co-ordinator:	Dr T Prave			
Lecturer(s)/Tutor(s):	Dr T Prave			

ES3002 Analytical and Statistical Methods in Earth Sciences				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr A Finch			
Lecturer(s)/Tutor(s):	Dr A Finch, Dr R Wilson			

Geography & Geosciences - Honours Level - 2015/6 - August 2015

ES3003 GIS and Spatial Analysis for Earth Scientists				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session) (Weeks 1 - 6)			
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: 5 lectures and 12 practicals and support sessions (Weeks 1 - 6).			
	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 Co-ordinator:	Dr R Robinson			
Lecturer(s)/Tutor(s):	Dr R Robinson			

ES3004 Processes and Products in Sedimentary Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr T Prave			
Lecturer(s)/Tutor(s):	Dr T Prave, Dr M Singer, Dr R Robinson, Mr S Allison			

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ES3006 Advanced Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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>				
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 residential field class.			
	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 Co-ordinator:	Dr A Finch			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES3007 Structural Geology and Tectonics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Prof P Cawood			
Lecturer(s)/Tutor(s):	Prof P Cawood			

ES3008 Geochemistry				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)			
This module focuses on the application of chemical principles to the Earth sciences, and the development of these principles as valuable tools available to the modern Earth scientist. The course aims to develop a comprehensive understanding of: (1) the origin and distribution of chemical elements in the Earth and solar system, (2) the major chemical reactions that take place on the surface of the Earth and its interior, and (3) how matter is cycled between the Earth's major chemical reservoirs. These concepts are developed through the application of thermodynamics to natural systems and the use of radiogenic and stable isotopes, based on theoretical and practical discussions. These tools are used in the module to allow quantitative predictions regarding the outcome of chemical reactions associated with geological processes.				
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 ES3002, ES3005			
Learning and teaching methods and delivery:	Weekly contact: 17 lectures, 15 hours of laboratory classes, 2 or more field classes over the semester.			
	Scheduled learning: 54 hours		Guided independent study: 96 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr N Allison			
Lecturer(s)/Tutor(s):	Dr A Finch, Dr M Claire, Dr N Allison, Dr J Rae, Dr A Burke			

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ES3009 Igneous and Metamorphic Petrology				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Tue and Thu (lectures); 2.00 pm - 5.00 pm Mon (practicals)			
This is a core module in Geology delivered early in the honours programme providing a framework for interpreting major petrological processes acting within the Earth's crust and mantle. The module serves as preparation for subsequent modules on related topics and for field-based modules, including Advanced Geological Mapping, the Research dissertation, and the Alps field course.				
Programme module type:	Compulsory for BSc Geology, joint degrees with Biology and Chemistry, and MGeol Earth Sciences; optional for BSc Environmental Earth Science			
Pre-requisite(s):	Normally ES2001 and (ES2002 or ES2003)			
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 Co-ordinator:	Dr C Donaldson			
Lecturer(s)/Tutor(s):	Dr C Donaldson, Dr A Finch, Dr W McCarthy			

ES3010 Advanced Environmental Field Methods				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 using geological and geophysical mapping, and analysis of surface and sub-surface hydrology.				
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 Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES3011 Global Biogeochemical Cycles				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 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 understanding proxies utilized 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 and 2-hour practical sessions (x 8 weeks).			
	Scheduled learning: 32 hours		Guided independent study: 118 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 Co-ordinator:	Dr A Zerkle			
Lecturer(s)/Tutor(s):	Dr A Zerkle, Dr M Claire			

Geography & Geosciences - Honours Level - 2015/6 - August 2015

ES3099 Field Methods in Geosciences				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Moine thrust system, the Buchan and Barrovian metamorphic zones, the Girvan-Ballantrae ophiolite and the Hebridean plutonic and volcanic centres.</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 Co-ordinator:	Dr R Robinson			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES4001 Field Excursion and Map Interpretation				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	12 days fieldwork in August - September. 9.00 am - 5.00 pm Fri (practicals)			
<p>Building on the field training of JH, this module develops the field observation and interpretation skills of collecting, recording, interpreting and synthesising data in the field and from geological maps and cross-sections. The field course will be thematic and examine all aspects of a region using an integrated approach. Theme and location may vary but the excursion will generally be based within a well-exposed orogenic belt with the aim of traversing from the foreland to the interior. Fieldwork will be combined with the interpretation of a region as represented on a geological map. Students will also be trained in the advanced techniques of interpreting remotely sensed images of the Earth's surface and geological maps, and in the construction of cross-sections.</p>				
Programme module type:	Compulsory for BSc Geology and 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 Co-ordinator:	Dr T Prave			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography & Geosciences - Honours Level - 2015/6 - August 2015

ES4002 Research Review, Essay and Seminar				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2015/6 & 2016/7			
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. The module is normally carried out in Semester 1 but a Semester 2 Research Review may be considered for MGeol students on a case by case basis.</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 Co-ordinator:	Dr C Donaldson			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES4003 Research Dissertation				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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). (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 Co-ordinator:	Dr T D Raub and Dr S Mikhail			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES4006 Advanced Igneous Petrogenesis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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, Environmental Earth Science, joint degrees with Biology and Chemistry, 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 = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr C Donaldson			
Lecturer(s)/Tutor(s):	Dr C Donaldson, Dr A Finch, Dr S Mikhail			

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ES4007 Petroleum Exploration and Geophysics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Thu (lectures), 2.00 - 5.00 pm Thu (practicals)			
The fundamental concepts, techniques and practices of the hydrocarbon exploration industry are presented. Students will gain a thorough understanding of the geoscience of petroleum exploration, particularly using geophysical methods, and a working knowledge of modern concepts in oil and gas geology.				
Programme module type:	Optional for 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 Co-ordinator:	Dr R Bates			
Lecturer(s)/Tutor(s):	Dr R Bates			

ES4008 Environmental Excursion and Maps				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	12 days fieldwork in August - September. 9.00 am - 5.00 pm Fri (practicals)			
This module is designed to provide training in a variety of mapping 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 mapping exercises will include use of aerial photographs, thematic mapping and GIS, and application of applied geophysical surveying and key analytical techniques.				
Programme module type:	Compulsory for BSc Environmental Earth Science			
Pre-requisite(s):	ES3010			
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr M Singer			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES4010 Joint Honours Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	Not applicable.			
<p>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/)</p>				
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 Co-ordinator:	Dr T Hill and Dr T Raub			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES4011 Work Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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.			
	Weekly contact: Meetings.			
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 Co-ordinator:	Dr R Robinson			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES4012 Research Placement in Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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.			
	Weekly contact: Meetings.			
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 Co-ordinator:	Dr R Bates			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES5001 Expedition Field Course				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	Summer
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>Fieldwork in Earth Sciences is key to graduate job prospects and is a platform for students to bring together the many aspects of Earth Sciences. The present module will involve the students not just in carrying out fieldwork, but also in the logistical and interpersonal sides of success fieldwork design. Students will identify a field area for study in consultation with a member of the teaching staff, which includes several aspects of Earth sciences, such as igneous, sedimentary, economic and environmental geology. The students will form a team and divide the responsibilities for fieldwork and logistics. The assessment will include a memoir that will summarise the geological history of the area, similar to that published by a Geological Survey or the exploration industry. Some student groups may choose to use this module to carry out ambitious fieldwork in a remote setting.</p>				
Programme module type:	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 Co-ordinator:	Dr A Finch			

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ES5003 Research Dissertation				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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".				
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 Co-ordinator:	Dr T Raub, Dr T Hill			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES5004 Integrated Earth Sciences				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module requires students to think of themselves as practitioners of a single integrated subject and thereby to bring together the various themes they have explored in the modules taken through their degree programme. It also promotes independent, critical thinking across the subject. It is assessed by reports on talks/key topics, attendance at a major international conference (EGU) and a single 4-hour exam, in which students are given many different forms of geological data (numerical, thin section, hand specimen, maps etc.) and asked to solve a complex geological problem. The module also acts as a platform through which we deliver employment skills and involves a mock job interview.				
Programme module type:	Compulsory for MGeol Earth Sciences.			
Pre-requisite(s):	Entry to Year 5 of MGeol Earth Sciences	Anti-requisite(s):	ES4004	
Learning and teaching methods and delivery:	Weekly contact: Tutorials, mock job interview, assistance in preparation of EGU spread throughout the year.			
	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: 4-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Robinson			
Lecturer(s)/Tutor(s):	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:	2016/7			
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 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 10.5 weeks), 3-hour practical sessions (x 3 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 120 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 Co-ordinator:	Dr A Burke			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES5006 Metallogeny				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 and 2016/7			
Planned timetable:	9:00 am - 11:00 am Thu (lectures); 9:00 am - 1.00 pm (practicals)_			
	<p>The module focuses on the geodynamic setting, age, geometry and mineralogy of the principal metallic mineral deposits using a holistic approach (structural geology, geochemistry, isotope geochemistry, sedimentology, igneous geology, metamorphic geology, and geophysics). Current genetic models of ore deposits 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.</p> <p>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, hand samples, and outcrops) from different types of metallic mineral deposits.</p> <p>A single day field excursion will be to the gold mine at Cononish or the lead mine at Wanlockhead to cover the geological context of the ore bodies and aspects of their exploration and production.</p>			
Programme module type:	Optional for BSc Geology and MGeol Earth Sciences.			
Pre-requisite(s):	For current BSc & MGeol students, normally ES3009 or CH1401, CH1402, and CH2501.			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 11 weeks), 3-hour practical sessions (x 11 weeks); 9 hours of field work			
	Scheduled learning: 64 hours		Guided independent study: 86 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 Co-ordinator:	Dr J Clouthier			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

ES5009 Geodynamics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am - 10.00 am Tue and Wed; 9.00 am - 5.00 pm Fri (Weeks 2,5,9)			
	<p>A study of the geodynamic evolution of Earth's crust since the Archaean, the evolution of convergent and divergent margins, and the relationships between tectonics, erosion and climate. The module contrasts geodynamic evolution in the Archaean, Proterozoic, Palaeozoic, Mesozoic and Cenozoic using a number of case studies, including examples visited in the field. The module develops skills of geodynamic interpretation, field observation, use of numerical models, report writing and oral presentation.</p>			
Programme module type:	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 Co-ordinator:	Prof P Cawood			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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ES5010 Environmental Geochemistry			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2015/6 & 2016/7		
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):	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 Co-ordinator:	TBC		
Lecturer(s)/Tutor(s):	Dr A Burke, Dr M Claire, Dr H Burdett		

Environmental Geography (EG) modules

EG3020 Global Climate Change			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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 and 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 Co-ordinator:	Dr R Wilson		
Lecturer(s)/Tutor(s):	Dr R Wilson, Dr T Hill, Dr J Rae		

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EG3021 Contemporary Environmental Problems: Applications and Solutions				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am - 1.00 pm Tue and Wed			
Environmental problems abound on local, regional, and global scales. The ability of current and future generations to understand, predict, and ameliorate these problems requires a solid understanding of links between their causes, processes, and environmental symptoms under various forcing conditions. This course considers several case studies of important terrestrial, marine, and atmospheric environmental problems, allowing students to evaluate the scientific evidence and challenging them to understand the physical, biological, and chemical processes that underpin their expression. The assessment will mimic the types of analysis/report used in industrial settings to describe, report and advise regarding environmental problems.				
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)			
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 11 weeks), 3 x 3-hour practical sessions and 6 tutorials over the semester.			
	Scheduled learning: 37 hours		Guided independent study: 154 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 Co-ordinator:	Dr M Singer			
Lecturer(s)/Tutor(s):	Dr M Singer, Dr T Hill			

EG3031 Special Topic for Physical Geography				
SCOTCAT Credits:	5	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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 one of EG3020 - EG3030			
Pre-requisite(s):	GG2011 and GG2012			
Co-requisite(s):	One from EG3020 - EG3030			
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 Co-ordinator:	Dr T Hill			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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EG3032 Special Environmental Topic for Physical Geography				
SCOTCAT Credits:	5	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Only available to students on a Geography or Sustainable Development Honours programme.			
Planned timetable:	To be arranged.			
<p>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 EG3020-EG3030). 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 EG3021 Contemporary Environmental Problems: Applications and Solutions.</p>				
Programme module type:	Optional for Geography or Sustainable Development students also taking one of EG3020 - EG3030			
Co-requisite(s):	Normally one from EG3020 - EG3030- currently EG3021			
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 Co-ordinator:	Dr M Singer			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

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EG4020 Geochronology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am - 1.00 pm Mon, 2.00 pm - 5.00 pm Mon		
<p>Determining the chronological age of events is one of the most fundamental questions in Earth and Environmental Sciences. However this simple question presents extraordinary challenges and interpreting age data is complex. Different methods are used for historical, Quaternary and geological timescales, each of which has its own strengths and drawbacks. Dating is achieved using methods that vary from measuring lichens with a ruler to detecting attogram levels of isotopes using some of the most precise instrumentation in physical science. We will explore a variety of simple and complex tools to understand the time frames of Earth processes such as erosion rates, sequences of moraine deposition, and successions of volcanic eruptions. Understanding how processes are dated in many cases requires the analyst to understand more fully the process itself. This module will be of interest to anyone involved in understanding processes across historical and Quaternary timeframes to those in Deep Time.</p>			
Programme module type:	Optional for all Earth & Environmental Science BSc and MGeol degrees and Geography or Sustainable Development MA and BSc		
Pre-requisite(s):	Normally ES2002 or ES2003 or (GG2011 and GG2012)	Anti-requisite(s):	GG3269
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 11 weeks), 3 x 2-hour practical sessions, 2 x 1-hour mentoring for orals over the semester.		
	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%, Practical Report = 30%, Oral Presentation = 20%		
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4		
Module Co-ordinator:	Dr V Rinterknecht		
Lecturer(s)/Tutor(s):	Dr V Rinterknecht, Dr T Raub, Dr R Robinson		

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EG4031 Analytical Sciences for Physical Geography			
SCOTCAT Credits:	5	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to students on a Geography Honours programme.		
Planned timetable:	To be arranged.		
<p>The module comprises a series of seven lectures about analytical science. The lectures explain the basic principles of accuracy and precision and these are illustrated in the context of four of the most common analytical methods used in physical geoscience. This module provides analytical science skills training to support students taking one of the Year 4 Earth & Environmental Science modules offered as part of the Geography degree (EG4020-EG4030). Students are asked to research an analytical method that complements teaching in the associated EG402X module. This is then presented in a poster format imitating the poster sessions at major conferences. Posters are marked by both students (peer assessment) and staff, and any discrepancies between those marks are discussed. The module will give BSc Geography students the necessary training in analytical science to allow them to excel in the accompanying EG402X module.</p>			
Programme module type:	Optional for Geography or Sustainable Development students also taking one of EG4020 - EG4030.		
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012		
Co-requisite(s):	One of EG4020 - EG4030		
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 Co-ordinator:	Dr A Finch		
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff		

Geography (GG) modules

GG3100 Reconstructing Past Environments				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available every year			
Planned timetable:	To be arranged.			
<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):	Passes at Grade 11 or better in GG2011, GG2012, or in SD2001			
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 Co-ordinator:	Dr K Roucoux			
Lecturer(s)/Tutor(s):	Various			

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GG3221 Geographies of Identity and Power				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	2.00 pm - 4.00 pm Tue			
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):	Passes at Grade 11 or better in GG2011 and GG2012, or in 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 Co-ordinator:	Dr M B Sothern			
Lecturer(s)/Tutor(s):	Dr M B Sothern			

GG3224 HIV/AIDS in sub-Saharan Africa				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	11.00 am - 1.00 pm Wed			
This module makes the case for a social-scientific, not merely biomedical understanding of HIV/AIDS in sub-Saharan Africa. It addresses the geographies of this phenomenon, exploring the politics of scaling, uneven global distributions, social contexts that facilitate its spread and the situatedness of sexual decision-making. The module investigates the role of gender relations, poverty, migration and youth. It also explores the everyday geographies of those living with AIDS, and evaluates proposed local and global solutions. The module is reading- and seminar-based. It utilises action-based assessment that challenges students to take their learning out of the classroom and transmit it to other contexts.				
Programme module type:	Optional for all degrees involving Geography			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012, or in 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 Co-ordinator:	Dr M G Kesby			
Lecturer(s)/Tutor(s):	Dr M G Kesby			

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GG3227 Colonial and Postcolonial Geographies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>This module traces the historical geography of modern colonialism from its sixteenth-century beginnings in Spain's discovery and conquest of the New World, through to the break-up of European colonial empires after World War II, and up to what has been called 'the colonial present' and the 'new imperialism' (revolving around the USA and the 'war on terror'). Emphasis will be placed on how colonialism, past and present, operates as a logic of displacement and dispossession, and as both a conceptual space (imaginative geography) and physical space (material geography) of encounter and conflict and resistance involving a wide array of projects of colonisation and resistance.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012, or in SD2001 and SD2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar (x 11 weeks) + 2 x 1-hour feedback/revision sessions			
	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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr D W Clayton			
Lecturer(s)/Tutor(s):	Dr D W Clayton			

GG3232 Housing, Community and Social-Spatial Justice				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012, or in SD2001 and SD2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture, 1 x 1-hour seminar (x 11 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 Co-ordinator:	Dr K McKee			
Lecturer(s)/Tutor(s):	Dr K McKee			

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GG3234 Migration and Transnationalism				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>This module is designed to advance students' appreciation of the chief academic arguments associated with migration and transnationalism. Geographical analysis of the changing role of labour migration in the world economy offers a distinctive perspective on this spatially, socially and economically selective process. Other new mobilities, such as the very significant increase in international student mobility, illustrate the complex ways in which globalisation interfaces with the efforts of individuals, families and communities to add to their social and cultural capital. Although dominantly concerned with international mobility, other scales of analysis will also be considered (e.g. the body). Finally, the course briefly covers issues associated with immigration, refugee and asylum policies.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012, or in 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 Co-ordinator:	Dr D McCollum			
Lecturer(s)/Tutor(s):	Dr D McCollum			

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GG3236 The Geography of Entrepreneurship and Self-employment			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Availability restrictions:	Offered on a two-year cycle.		
Planned timetable:	3.00 pm - 5.00 pm Mon		
<p>How to promote entrepreneurship and firm formation have been major research and policy questions for some time, and especially since the financial crisis of 2007-2009. The UK experienced a sharp increase in microbusinesses in the years following the crisis, and most such businesses are run by self-employed workers who do not employ other people. Using examples from the UK and beyond, this module explores how entrepreneurship, firm formation and self-employment both create and are influenced by economic geographies that stretch across a variety of (local, regional, national and international) scales. Macro and micro factors and influences will be examined using a wide range of data sources and studies, and drawing on key concepts in economic geography such as embeddedness and social networks. Social and spatial inequalities associated with entrepreneurship and self-employment will be critically assessed.</p>			
Programme module type:	Optional for all degrees involving Geography or Sustainable Development		
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012, or in SD2001 and SD2002		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture and 1-hour seminar (x 10 weeks) and 6 office hours over the semester.		
	Scheduled learning: 26 hours	Guided independent study: 174 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 (Presentation) = 40%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr D Reuschke		
Lecturer(s)/Tutor(s):	Dr D Reuschke		

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GG3237 Political and Cultural Geographies of the Border				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	12.00 noon - 2.00 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 or Sustainable Development			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012, or in SD2001 and SD2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 11 weeks) 1 x 1-hour seminar (x 11 weeks) 2 hours feedback and additional exam prep sessions			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 1-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Leahy			
Lecturer(s)/Tutor(s):	Dr S Leahy			

GG3262 Climate and Weather Systems				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>Weather affects every aspect of life, and is a fundamental control on many environmental systems. This module explores the workings of the atmosphere at a wide range of scales, from the formation of clouds and raindrops, through thunderstorms and cyclones, up to large-scale circulation of the atmosphere. Beginning from first principles, key physical processes are introduced and used to develop a deep understanding of the earth's weather and climate. The module concludes with a critical examination of the climate change debate.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development, or - by arrangement - Environmental Geoscience			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012			
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 Co-ordinator:	Prof D I Benn			
Lecturer(s)/Tutor(s):	Prof D I Benn			

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GG3263 Glaciers and Glaciation				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>In recent years, concern has risen about the impact of climate change on glaciers and ice sheets, and the implications for sea level rise, natural hazards and water resources. This course critically evaluates these issues, and explores the fundamental glaciological processes required to understand them. The first part of the course focuses on how glaciers function and interact with climate, and covers glacier mass balance (snowfall and ice melt), hydrology, processes of glacier motion and ice dynamics. The second part then applies these principles to important issues, such as glacier lake outburst floods, water resources in glacier-fed river basins, the future of the Antarctic and Greenland Ice Sheets, and sea level change.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development, or - by arrangement - Environmental Geoscience			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012			
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 Co-ordinator:	Prof D I Benn			
Lecturer(s)/Tutor(s):	Prof D I Benn			

GG3264 Oceans and Climate				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>The oceans play a key role in the global climate system. The aim of this module is to foster an understanding of: (1) changes in ocean circulation and climate, the possible mechanisms for such changes and the wider implications in terms of past, present and future global and regional climates; and (2) to provide an introduction to some of the research methods employed to determine oceanographic changes.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development, or - by arrangement - Environmental Geoscience			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012			
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 Co-ordinator:	Prof W E N Austin			
Lecturer(s)/Tutor(s):	Prof W E N Austin			

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GG3271 Coastal Processes			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Availability restrictions:	Offered on a two-year cycle.		
Planned timetable:	2.00 pm - 4.00 pm Thu		
<p>The majority of the world's population live in close proximity to the coastal zone. Coastal processes are highly dynamic and sensitive to external drivers, including long-term climate change and anthropogenic activities. Understanding these systems is important for developing appropriate coastal management strategies. Coasts (and coastal processes) therefore represent an excellent opportunity to study the interactions between humans and their physical environment.</p> <p>The module aims to enhance students' understanding of environment-shaping processes and to offer advanced field-based training in the coastal environment. Including practical classes and an obligatory, reasonably priced, weekend field excursion, it encourages students to think about the ways in which process knowledge can inform coastal management.</p>			
Programme module type:	Optional for all degrees involving Geography or Sustainable Development, or - by arrangement - Environmental Geoscience		
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012 and/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 Co-ordinator:	Prof W E N Austin		
Lecturer(s)/Tutor(s):	Prof W E N Austin		

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GG3272 Biogeography				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	11.00 am – 2:00 pm Thu			
<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 or Sustainable Development, or - by arrangement - Environmental Geoscience			
Pre-requisite(s):	Passes at Grade 11 or better in GG2011 and GG2012 and/or SD2001 and SD2002			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture, (X 11 weeks), 1-hour seminar (x 6 weeks) 2-hour workshops(x 4 weeks) 6-hour fieldwork (x 1 week)			
	Scheduled learning: 31 hours		Guided independent study: 169 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>Student 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 Co-ordinator:	Dr I Lawson			
Lecturer(s)/Tutor(s):	Dr I Lawson, Dr K Roucoux			

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GG3301 Special Topic for Joint or Major Honours in Geography (Junior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography.			
Planned timetable:	To be arranged.			
This module is designed to allow Joint or Major Honours students in their Junior Honours year to engage with the subject matter of a selected 20-credit optional module in Geography (GG3221 - GG3289) yet balance the workload across the four semesters of their Honours programme. Students complete the contact hours of their chosen module but undertake a separate assessment.				
Programme module type:	Optional for Joint Honours Geography and all 'Geography with' degrees			
Pre-requisite(s):	Passes at Grade 11 or better in 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 Co-ordinator:	Dr D McCollum			
Lecturer(s)/Tutor(s):	Various			

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GG3302 Special Topic for Honours in Geography (Senior Honours)			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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):	Passes at Grade 11 or better in 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 Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Various		

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GG4201 Advanced Debates in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Core - available every year.			
Planned timetable:	11.00 am - 1.00 pm Tue			
<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):	GG3201, or 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 Co-ordinator:	Dr D W Clayton			
Lecturer(s)/Tutor(s):	Team taught			

GG4297 Joint Honours Research Dissertation in Geography				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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</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 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 Co-ordinator:	Dr E Ferraro			
Lecturer(s)/Tutor(s):	Team taught			

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GG4298 Research Dissertation in Geography			
SCOTCAT Credits:	50	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
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):	GG3201 or GG3203, 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 Co-ordinator:	Dr E Ferraro		
Lecturer(s)/Tutor(s):	Team taught		

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GG4301 Advanced Study for Joint or Major Honours in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 GG3202, GG3203, or SG3202, SG3203			
Learning and teaching methods and delivery:	<p>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.</p>			
	Scheduled learning: 23 hours		Guided independent study: 77 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:	Coursework Essay = 100%			
Module Co-ordinator:	Dr D McCollum			
Lecturer(s)/Tutor(s):	Various			

Sustainable Development (SD) modules

SD3221 Frontiers in Sustainability Research: Do Good Lives Cost the Earth?				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>Material wealth has arguably created a 'culture of surplus' through which the pursuit of improved personal well-being has involved ever greater consumption of material goods, leaving in its wake a legacy of environmental problems (Ryan and Deci 2001). Yet across the world, people have often reported having long and happy lives ('happy life years'), whilst consuming different levels of resources (Seaford 2011). The security of these resources varies enormously too with potential implications for well-being, and much of this security is changing with increasing global connectivity and shifts from subsistence to monetary economies (Fazey et al., 2011). This module draws on evidence and literature from across several disciplines (for example, geography, psychology, sociology, politics) to explore the relationship between personal well-being and planetary well-being (via environmental behaviour). It will look at and critically assess models of personal well-being and environmental behaviour, notions of the 'good' life, and behaving 'well'. It will also explore debates around responsibility for personal well-being and environmental behaviour, and how that is manifest in processes of policy-making.</p>				
Programme module type:	Optional for all degrees involving Sustainable Development or Geography			
Pre-requisite(s):	Passes at grade 11 or better in (SD2001 and SD2002) or (GG2011 and GG2012)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 3 x 2-hour seminars and 1 x 2-hour tutorial during the semester			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr L A Reid			
Lecturer(s)/Tutor(s):	Dr L A Reid			

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SD3222 Governance for Sustainability				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	9.00 - 11.00 am Mon, occasional 9.00 am - 11.00 am Wed			
<p>The Earth's environment has become a major focal point of international conflict and cooperation. Responding to the growing threats of climate change and energy insecurity, countries have signed over 700 international treaties designed to protect and manage the environment. Just as importantly, they have developed elaborate tools and systems for observing and modelling the behaviour of the global environment and translating this knowledge into policy advice. At the same time, global challenges demand action from local, national and transnational actors. This course provides a broad overview of developments and patterns in the practical, theoretical and political dimensions of multi-level governance as they have emerged over the past three decades. In so doing, a wide range of policy case studies are explored including energy security, climate change and oceans & coasts. Students will acquire practical knowledge of Governance arrangements for sustainability, as well as critical skills to assess notions of 'Good Governance.'</p>				
Programme module type:	Optional for all degrees involving Sustainable Development or Geography			
Pre-requisite(s):	Passes at grade 11 or better in (SD2001 and SD2002) or (GG2011 and GG2012)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture plus 1 x 1-hour seminar (x 11 weeks) plus 2 x 3-hour seminars			
	Scheduled learning: 26 hours		Guided independent study: 174 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%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr T A Stojanovic			
Lecturer(s)/Tutor(s):	Dr T A Stojanovic, D McCauley			

Geography & Geosciences - Honours Level - 2015/6 - August 2015

SD3224 Introduction to Environmental Economics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	9.00 am - 11.00 am Wed			
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 all degrees involving Sustainable Development or Geography			
Pre-requisite(s):	Passes at grade 11 or better in (SD2001 and SD2002) or (GG2011 and GG2012)	Anti-requisite(s):	SD5023	
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 178 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 = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof N Hanley & Dr E McLaughlin			
Lecturer(s)/Tutor(s):	Prof N Hanley & Dr E McLaughlin			

SD3225 Transitioning to Sustainability: The Nature of Community in Multi-level Governance and Action for Sustainability				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	10.00 am - 12.00 noon Fri			
Sustainability will never be achieved only through state intervention. A shift towards management models includes an emphasis on community as an essential component of multi-level governance for sustainability. In this module we will explore how communities of place, interest, practice and value can contribute to the transition to sustainability. 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.				
Programme module type:	Optional for all degrees involving Sustainable Development or Geography			
Pre-requisite(s):	Passes at grade 11 or better in (SD2001 and SD2002) or (GG2011 and GG2012)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks) 5-hour practical session (x 1 week), 10-hour fieldwork (x 1 week)			
	Scheduled learning: 37 hours		Guided independent study: 163 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 Co-ordinator:	Dr R White			
Lecturer(s)/Tutor(s):	Dr R White			

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SD3237 Placing Sustainability: Knowledge & Wellbeing for the Anthropocene				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged			
<p>This module engages with debates on the culturally shaped idea of sustainability and how it changes geographically across place. This will be discussed through a variety of ethnographic examples, especially indigenous peoples of Latin America. The module will bring together for the first time and discuss in critical and novel ways three distinct yet interrelated bodies of literature and debates, namely the scholarships on sustainability, well-being and ways of knowing. The critical engagement with scholarly and policy debates on knowledge, “alternative” knowledge, indigenous ways of knowing, and their relationship with ‘well-being’ will be core to the module, to challenge and disrupt mainstream sustainability scholarship.</p>				
Programme module type:	Optional for all degrees involving Sustainable Development or Geography			
Pre-requisite(s):	Passes at grade 11 or better in (SD2001 and SD2002) and/or GG2012 and/or SA2002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture (x 5 weeks), 1 x 1-hour seminar (x 5 weeks) 40-hour fieldwork (x 2 weeks)			
	Scheduled learning: 90 hours		Guided independent study: 110 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 Co-ordinator:	Dr E Ferraro			
Lecturer(s)/Tutor(s):	Dr E Ferraro			

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SD4299 Dissertation in Sustainable Development			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Core - Available only to students who intend an Honours Degree in Sustainable Development.		
Planned timetable:	10:00-12:00 noon Wed (semester 2)		
<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. The dissertation is a maximum of 15,000 words in length. 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 SD3201, SD3202, SD3203, SD3204, SG3201, SG3202, SG3203, SG3204	Anti-requisite(s):	SD4002
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 Co-ordinator:	Dr McGarrol (S1) Dr E Ferraro (S2)		
Lecturer(s)/Tutor(s):	Team taught		

Sustainable Geography (SG) modules

SG3201 Single Honours Research Design and Methodology Training (60)			
SCOTCAT Credits:	60	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Not available to General Degree Students.		
Planned timetable:	To be arranged.		
This module occupies a central place in our field-based research-orientated degree. It prepares students to undertake their independent research dissertation and develops transferable professional skills useful beyond graduation. Students 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.			
Programme module type:	Compulsory core for Single Honours Geography and one of SG3201 - SG3204 is compulsory for Sustainable Development		
Pre-requisite(s):	Passes at Grade 11 or better in (GG2011 and GG2012) or (SD2001 and SD2002)	Anti-requisite(s):	SG3202, SG3203, SG3204, GG3201, SD3201
Required for:	GG4201, SG4221, SG4222, SG4223, SG4224, SG4228, GG4298, SD4299, 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 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 Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Team taught		

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SG3202 Joint Honours Research Design and Methodology Training (30)			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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:	Compulsory core for Joint Honours Geography One of SG3201 - SG3204 is compulsory for Sustainable Development		
Pre-requisite(s):	Passes at Grade 11 or better in (GG2011 and GG2012) or (SD2001 and SD2002)	Anti-requisite(s):	SG3201, SG3203, SG3204, GG3202, SD3202
Required for:	SG4221, SG4222, SG4223, SG4224, SG4228, 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 Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Team taught		

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SG3203 Research Design and Methodology Training (50)			
SCOTCAT Credits:	50	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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 dissertation and develops transferable professional skills useful beyond graduation. Students will learn about research design and the collection of original empirical geographic data through engagement with a series of problem-based geographical issues. Themes covered include: epistemology; ethics of research; statistics; cartography; GIS; and quantitative, qualitative and physical research methods. Students are also required to attend an residential field course. There is opportunity for streaming and choice amongst units covering these themes, and students will need to make an informed choice, with the help of their advisor, to select from the units shared with the larger 60-credit GG3201. The module concludes with students producing an independent research proposal for their Senior Honours dissertation research.</p>			
Programme module type:	Compulsory core for Geography with Persian, Geography with Social Anthropology, Geography with Spanish One of SG3201 - SG3204 is compulsory for Sustainable Development		
Pre-requisite(s):	Passes at grade 11 or better in GG2011 and GG2012 or SD2001 and SD2002	Anti-requisite(s):	SG3201, SG3202, SG3204, GG3203, SD3203
Required for:	GG4201, SG4221, SG4222, SG4223, SG4224, SG4228, GG4298, SD4299, 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 Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Team taught		

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SG3204 Method, Field, Data: Design and Methodology Research Training (40)			
SCOTCAT Credits:	40	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Not available to General Degree Students.		
Planned timetable:	To be arranged.		
<p>This module is a core research design and methods training module. It is organised around a series of problem-based learning units where introductory lectures lead onto the practical implementation of particular methods. The focus is on the collection and generation of data which 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.</p>			
<p>This module is a core research design and methods training module. It is organised around a series of problem-based learning units where introductory lectures lead onto the practical implementation of particular methods. The focus is on the collection and generation of data which then leads onto the rigorous analysis of data in Senior Honours. It includes a week-long research-based fieldclass organised around the design and implementation of a specific research project. The module provides fundamental training for the independent Senior Honours dissertation project.</p>			
Programme module type:	One of SG3201 - SG3204 is compulsory (Core) for Sustainable Development		
Pre-requisite(s):	Passes at grade 11 or better in GG2011 and GG2012 or SD2001 and SD2002	Anti-requisite(s):	SG3201, SG3202, SG3203, SD3204
Required for:	SG4221, SG4222, SG4223, SG4224, SG4228, GG4298, SD4299, 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 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 Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Team taught		

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SG3229 Environmental Management in Scotland			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2016/7		
Availability restrictions:	Offered on a two-year cycle.		
Planned timetable:	To be arranged.		
<p>This module explores current environmental management issues in Scotland. It discusses the primary sectors of land & resource management (e.g. forestry, agriculture, wildlife management, freshwater resource management, conservation, renewable energy), and explores how these systems interact. The aim is to leave students with an informed conceptual and empirical framework for evaluating management proposals and their implications for environmental, economic and social change. A particular focus, employing topical case studies and a field visit, is the conflicts that arise as interest groups with contrasting philosophies & value systems compete to shape the future of Scotland's natural heritage within a devolved political framework and in the context of climate change.</p>			
Programme module type:	Optional for all degrees involving Geography or Sustainable Development		
Pre-requisite(s):	Passes at grade 11 or better in (GG2011 and GG2012) or (SD2001 and SD2002)		
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 Co-ordinator:	Dr C R Warren		
Lecturer(s)/Tutor(s):	Dr C R Warran		

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SG3235 Science, Society and Natural Resource Management				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	4.00 pm - 6.00 pm Thu			
<p>This module examines the role of natural science in understanding the relationship between people and their environment. Much environmental management relies on 'evidence-based' decision-making, perhaps giving the impression that this evidence provides all the answers. This module illustrates how the 'answers' provided by natural science often depend on the interests of the questioner, and explores conflict and debate over issues of natural resource conservation and restoration between scientific, policy and lobby groups. Using a range of Scottish and international case studies – peatlands, woodlands, climate change, and heritage values – the module examines how scientific research is used and translated into practice.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development			
Pre-requisite(s):	Passes at grade 11 or better in (GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 1-hour seminar (x 10 weeks) + 1 x 1-hour essay preparation session, 1 x 1-hour revision session, 4 x 1-hour office hours over the semester.			
	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% (of which 25% = essay and 15% = group presentation)			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Davies			
Lecturer(s)/Tutor(s):	Dr A Davies			

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SG3272 Long-term Perspectives on Sustainability				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	To be arranged.			
<p>This module examines how long-term perspectives on human-environment interactions can inform modern understandings of sustainability. Although sustainability is a modern concern, many of its problems are very similar to those faced by societies in the past: climatic change, resource degradation, extreme events, conflict and natural hazards. This module illustrates how we can investigate past human-environment interactions through careful consideration of palaeoenvironmental data, and then consider how this can be used to understand how past societies coped, or failed to cope, with a range of problems. This idea will be illustrated with a range of case studies across the North Atlantic islands and the Pacific islands.</p>				
Programme module type:	Optional for all degrees involving Geography or Sustainable Development			
Pre-requisite(s):	Passes at grade 11 or better in (GG2011 and GG2012) or (SD2001 and SD2002)			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture, 1-hour seminar (x 10 weeks), 6 office hours over semester.			
	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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Streeter			
Lecturer(s)/Tutor(s):	Dr R Streeter			

SG4221 Review Essay				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Core - available every year			
Planned timetable:	4.00 pm - 6.00 pm Thu			
<p>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.</p>				
Programme module type:	Optional elective for all degrees involving Geography or Sustainable Development			
Pre-requisite(s):	Passes in one of SG3201, SG3202, SG3203, SG3204, GG3201 - GG3204, SD3201 - SD3204			
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 Co-ordinator:	Dr L Finny			
Lecturer(s)/Tutor(s):	Team taught			

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SG4222 Advanced Qualitative Analysis			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am - 1.00 pm Thu		
<p>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.</p>			
Programme module type:	Optional elective for all degrees involving Geography or Sustainable Development		
Pre-requisite(s):	Passes in one of SG3201, SG3202, SG3203, SG3204, GG3201 - GG3204, SD3201 - SD3204		
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 Co-ordinator:	Dr M Sothern		
Lecturer(s)/Tutor(s):	Team taught		

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SG4223 Advanced Quantitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 4.00 pm Tue and Thu			
<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 or Sustainable Development			
Pre-requisite(s):	Passes in one of GG3201, GG3202, GG3203, SD3201 - SD3204, SG3201 - SG3204	Anti-requisite(s):	GG4223, SD4223	
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 Co-ordinator:	Dr A Marshall			
Lecturer(s)/Tutor(s):	Team taught			

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SG4224 Advanced Topics in Physical Sciences			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am - 1.00 pm Tue and 9.00 am - 11.00 am Thu		
<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 or Sustainable Development		
Pre-requisite(s):	Passes in one of SG3201, SG3202, SG3203, SG3204, GG3201 - GG3204, SD3201 - SD3204	Anti-requisite(s):	GG4224, SD4224
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 Co-ordinator:	Dr R Streeter		
Lecturer(s)/Tutor(s):	Team taught		

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SG4228 Advanced Topics in Geographic Information Science (GISci)				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am - 12.00 noon Mon and Fri, and 2.00 pm - 4.00 pm Mon and Fri			
<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 or Sustainable Development			
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 = 100%			
Re-Assessment pattern:	Coursework project = 100%			
Module Co-ordinator:	Dr J Long			
Lecturer(s)/Tutor(s):	Dr J Long, Dr U Demsar			

School of History

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

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.

History (HI) modules

HI4101 Communication in History			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr S Tyre		

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HI4997 Recording the Past			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Prof G DeGroot		
Lecturer(s)/Tutor(s):	Prof G DeGroot		

HI4998 Honours Project in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>This module involves oral presentation as well as written submission. It is designed to encourage the development of skills of historical analysis through the concentrated study of a chosen topic. It generally takes the form of an extended essay (maximum 8,000 words) on a narrowly defined topic, but may also involve new developments in learning and information dissemination, such as the production of a website, film or video, etc. Group projects are also welcome, their length being dependent on the numbers involved. The project outcome is assessed on the quality of the library research and analysis shown in the written submission (75%) and on the oral presentation of the findings to other students and two tutors (25%). The project may build on work you have done in another module, but it must break new ground and use substantially new research. It must not have been submitted in whole or part for any other module.</p>				
Programme module type:	HI4997, HI4998, CL4999 or with permission HI4999 is compulsory for History. HI4997, HI4998, or HI4999 with permission is compulsory for Modern History, Scottish History 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%			
	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 Co-ordinator:	Prof G Rowlands			
Lecturer(s)/Tutor(s):				

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HI4999 Honours Dissertation in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 With permission, Optional for Middle East Studies.			
Anti-requisite(s):	HI4997, HI4998, ME4998, CL4999			
Learning and teaching methods and delivery:	Weekly contact: Tutorials as required.			
	Scheduled learning: 12 hours		Guided independent study: 288 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
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 Co-ordinator:	Dr B Struck			

HI4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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. (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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Mediaeval History (ME) modules

ME3142 The Castle in Mediaeval Scotland (1100 - 1550)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Castles remain the most impressive physical reminders of Scotland's mediaeval past. The great royal fortresses of Edinburgh and Stirling provide symbols of Scotland's past nationhood; the ruined walls and towers of baronial castles demonstrate the power and pretensions of the great lords of the middle ages. As military strongholds, centres of government and lordship, and residences of royal and aristocratic households, these castles give access to the main themes of medieval Scottish politics and society. This module will study the castle in its context. The changing needs of military and domestic architecture in response to the needs of war and peace, the siting of castles and their use in wider structures of authority from Lothian and the marches to the Hebrides, and their role in warfare, as places of refuge and as bases for garrisons, will all be considered. Architectural and archaeological evidence will be combined with descriptions of the Scottish castle in chronicles and record sources to obtain a full understanding of the buildings and their functions.</p>				
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour. 1 field trip.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof M Brown			
Lecturer(s)/Tutor(s):	Prof M Brown			

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ME3162 The Mediaeval Castle				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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 and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	Anti-requisite(s):	ME3411	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A D Stewart			
Lecturer(s)/Tutor(s):	Dr A D Stewart			

ME3163 The Imperial City: Byzantine and Ottoman Constantinople				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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 architectural plans and administrative documents.				
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	Anti-requisite(s):	ME3218, ME4854	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr D Kastritsis			

ME3223 The Rise and Fall of the Carolingian Empire, c.750 - 900				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module deals with the history of the Carolingian dynasty, who ruled the last pan-European empire of the middle ages, stretching from Brittany in the west to the frontiers of what is now Hungary in the east. Beginning with the spectacular conquests and cultural reforms of the emperor Charlemagne, the module traces the transformation and ultimate disintegration of the empire under his descendants. Why did the empire collapse? And even more importantly, what held it together in the first place? Central themes include the construction and maintenance of royal power through ritual, history-writing and iconography; the ethos of the aristocracy; warfare and the impact of the Viking raids; the development of the office of queenship; exploitation of the peasantry and economic change; and the importance of the period for the emergence of Europe.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof S MacLean			
Lecturer(s)/Tutor(s):	Prof S MacLean			

ME3231 Mediaeval Apocalyptic Traditions 400 - 1200				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr J Palmer			
Lecturer(s)/Tutor(s):	Dr J Palmer			

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ME3232 Queens and Queenship in Early Mediaeval Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores the political role played by queens in the early Middle Ages. Studying the constantly shifting representation of female authority (often depicted as unnatural and dangerous) allows us to examine various key moments in early mediaeval political history and helps illuminate contemporary power structures. This enterprise also demands that we confront broader cultural phenomena - for example changing attitudes to marriage, sex and masculinity - and that we engage with modern historiographical debates about gender and history. The module is structured around a series of texts written about and for queens, each of which is selected to illuminate broader issues as well as for intrinsic interest.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof S MacLean			
Lecturer(s)/Tutor(s):	Prof S MacLean			

ME3235 Mediaeval Political Thought				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module will explore the ideas that shaped social and political life in the West during the middle ages. Students will examine how constantly evolving concepts such as authority, liberty, and justice have been fundamental in influencing how modern society looks today. An understanding of such ideas is crucial for a proper understanding of Western history, and this module will examine the development of political thought and its historical context throughout the mediaeval period. Students will be introduced to the works of highly influential authors such as Aristotle and St. Augustine, and explore how their ideas were adopted and developed by mediaeval writers such as John of Salisbury, Thomas Aquinas, Dante Alighieri, and Niccolo Machiavelli.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
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 Co-ordinator:	Dr R Cox			
Lecturer(s)/Tutor(s):	Dr R Cox			

ME3237 Legal Cultures in Late Antiquity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>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?</p>			
Programme module type:	Optional for Ancient History, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof C Humfress			
Lecturer(s)/Tutor(s):	Prof C Humfress			

ME3238 Holy Lives in Late Antiquity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>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.</p>			
Programme module type:	Optional for Ancient History, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof C Humfress			
Lecturer(s)/Tutor(s):	Prof C Humfress			

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ME3304 Age of Conquest: Edward I - Scotland and Wales (1239 - 1307)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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 and Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2 hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof M Brown			
Lecturer(s)/Tutor(s):	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:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Adomnan mac Ronain was born in Donegal, in the north of Ireland, in 624 and went on to become the ninth abbot of Iona, in western Scotland, in 679; a post he held until his death in 704. As both author and subject of hagiography, promulgator of human rights legislation, international ambassador and agent of church reform he is rightly viewed as one of the leading figures of his generation. An examination of his career provides an ideal vehicle for examining the political, social and religious development of Ireland and northern Britain in the seventh century.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A Woolf			

ME3309 Mediaeval St Andrews				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Scottish History and BA (Intl Hons) History			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr K C Stevenson			
Lecturer(s)/Tutor(s):	Dr K C Stevenson, Prof M Brown			

ME3420 Rich and Poor in the Later Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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 and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-Hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A Del Campo			
Lecturer(s)/Tutor(s):	Dr A Del Campo			

History - Honours Level - 2015/6 - September 2015

ME3423 Justifying Mediaeval Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
A rich body of literature has emerged over the last 2,500 years concerning the moral challenges posed by warfare. Through Classical Greece and Rome to the early Church and the Middle Ages, the justice of war has been debated in theology, philosophy and law. This module will explore how ideas of 'just warfare' developed, and how certain 'rules' emerged which were intended to regulate or limit violent conflict. Students will examine how such theories and rules were espoused, observed, and ignored during the middle ages, and compare these ideas with the realities of medieval warfare. The module will focus largely on the Western tradition and warfare, but will also include seminars on Islamic and Eastern perspectives on justified violence.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
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 Co-ordinator:	Dr R Cox			
Lecturer(s)/Tutor(s):	Dr R Cox			

ME3426 Women and Gender in the Later Middle Ages				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module focuses on women's lives in Europe from about 1150 to about 1550. When we think about women in this period, we often assume that they had few avenues for self-expression, public recognition, or even personal happiness. In this course we will look at the social, cultural, and legal boundaries that confronted women, but our major focus will be on the lives that women were able to build despite - or even because - of these barriers. We will look at women across the social spectrum - from prostitutes to queens - and from all parts of Western Europe. We will focus less on images of women than on their actual lives. Our emphasis will be on ordinary women, but in each part of the course, we will also look at an individual or group of women to discuss how the section's themes played out on the micro level.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
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 = 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 Co-ordinator:	Dr A Del Campo			
Lecturer(s)/Tutor(s):	Dr A Del Campo			

ME3611 The Eastern Roman Empire in the Reign of Justinian 527 - 565				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores the political, social and cultural history of the Empire of New Rome, centred on Constantinople, in the sixth century. Themes covered will include: external relations with established neighbours (Sasanian Persia) and recent arrivals (Ostrogoths in Italy, Slavs and Avars in the Balkans); contemporary theological controversies; society and economy in Egypt and the eastern Mediterranean; plague and holy men; artistic and literary culture (primarily through the works of the historian Procopius); faction, riot and urban disorder; imperial ideology; gender and representations of Theodora. Translated extracts from sources in Greek, Latin, Syriac, Armenian and Coptic will be studied. Some material, numismatic and papyrological evidence will also be introduced.				
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	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 Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

ME3612 Cataclysm and Consolidation: the Reconfiguration of the Middle East in the Seventh Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module traces the collapse of the established political order across the Middle East, through the eclipse of Sasanian Persia and the emasculation of the East Roman Empire, and the dramatic emergence of a new and dynamic Islamic polity. The module will explore the political, social and cultural aspects of these developments, discerning what changed, and at what rate, and what survived relatively unscathed. All the topics will be explored through close analysis of translated extracts from a wide range of sources in Greek, Arabic, Armenian, Syriac and Latin, set alongside material, numismatic and papyrological evidence.				
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	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 Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

History - Honours Level - 2015/6 - September 2015

ME3613 The Formation of Islamic Iran: From the Arab Conquests to the Seljuq Empire (600 - 1200)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>In the wake of the early Islamic conquests, between the seventh and twelfth centuries Iran was transformed into a predominantly Muslim society. Yet an Iranian identity with its roots in the pre-Islamic Sasanian empire and earlier was not forgotten. This module studies how Iranian and Islamic identity interacted and fused, creating a new culture expressed in the Persian language that was profoundly influential in the wider Islamic world, and was also adopted by the Turkish dynasties that dominated Iran from the eleventh century. Political, cultural and religious change in this formative period of Iranian history will be studied through both literary and material primary sources such as coins and inscriptions.</p>			
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A Bdaiwi			
Lecturer(s)/Tutor(s):	Dr A Bdaiwi			

ME3616 Missionaries, Assassins and State-builders: Militant Shi'ism in the Mediaeval Muslim World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module looks at the role of Shi'ism in a series of dynamic politico-religious movements which took place over several centuries in the mediaeval period in an area stretching from North Africa to India. The module will cover the breakaway group known as the Isma'ilis, the Fatimid Isma'ili caliphate in North Africa, and the famous Isma'ili splinter group, the Nizaris (the "Assassins"), their operations and their role in both Muslim and Crusader history. It will also look at the further spread of the Isma'ili movement to Yemen and the Indian sub-continent.</p>				
Programme module type:	Optional for Ancient History and Archaeology, History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof C Hillenbrand			
Lecturer(s)/Tutor(s):	Prof C Hillenbrand			

History - Honours Level - 2015/6 - September 2015

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:	2015/6			
Availability restrictions:	Available only to students in the second year of Honours Programme			
Planned timetable:	9.30 am - 12.30 pm Wed			
<p>The tenth century has traditionally been dismissed as a dark chapter in western European history, a 'century of iron' in which inelegant warlords lorded it over the wreckage of the Carolingian Empire, dissolute popes presided over a corrupt 'pornocracy' in Rome, and pagan raiders menaced the frontiers of Christendom. In the last 20 years, however, study of the period has been revitalised, and the tenth century is now at the centre of a series of fascinating debates about political power, economic change and the origins of Europe itself. This module explores the dynamics of the era via a comparative exploration of Germany and England under two of their most powerful rulers, Otto 'the Great' (936-73) and Edgar 'the Peaceful' (959-75) respectively. We will utilise a wide range of contemporary sources (narrative, documentary, artistic and archaeological) to examine and compare these intimately connected but strikingly different kingdoms. Topics include the nature and construction of royal power; invasion, conquest and warfare; aristocratic culture; political ritual; church reform; queens and queenship; economic change; the writing of history; and relations with the Byzantine and Islamic worlds.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Prof S MacLean			
Lecturer(s)/Tutor(s):	Prof S MacLean			

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:	2015/6			
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 and 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: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-Hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Prof M Brown			
Lecturer(s)/Tutor(s):	Prof M Brown			

History - Honours Level - 2015/6 - September 2015

ME4755 Norway in Saga Times				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed			
This module will look at the history and historiography of Norway between the reigns of Magnus Erlingsson and Hákon IV. This period saw the end of the debilitating civil wars which racked Norway in the twelfth century and also the flourishing of saga literature. The module will involve close reading of the contemporary sags dealing with the events of Norwegian History between c. 1157 and 1266 including the annexation of Iceland and the conflict with the Scottish crown over hegemony in the Western Isles. This is not a course about vikings.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Scottish History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 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 Co-ordinator:	Dr A Woolf			
Lecturer(s)/Tutor(s):	Dr A Woolf			

ME4852 From Leo VI to Basil II: Byzantium in the Tenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
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			
The tenth century witnessed the political and cultural revival of Byzantium following two centuries of dour military struggle, impoverishment and introspection. Byzantium took advantage of a fragmented Muslim polity to push eastwards, seizing territory and attracting Armenian, Arab and Kurdish clients into its orbit. Byzantium also sought to resolve its relationship with an expanding Bulgarian state, uncomfortably close to Constantinople both geographically and ideologically. In Semester 1, this module will trace the interaction of Byzantium with its immediate neighbors and distant powers through a wide range of translated extracts and material evidence. There were acute differences of opinion over the direction and rate of expansion, prompting civil war although never secession. In semester 2 we shall examine the economic and social foundations of Byzantium, the role of the court in Constantinople and the workings of the administration. The revival in literary, artistic and architectural activity will be placed against this backdrop.				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies and BA (Intl Hons) History.			
Anti-requisite(s):	ME4812			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar plus 1 office hour and occasional practicals and lectures.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr T W Greenwood			
Lecturer(s)/Tutor(s):	Dr T W Greenwood			

ME4855 Crusaders, Mongols and Mamluks: West and East in the Mid-Thirteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed			
<p>This module will consider the range of interactions between the Latin West and the powers and cultures of the Near East and beyond, in the period will roughly between the first two Councils of Lyons, 1245-74, both of which dealt with crusading to the Levant and with matters relating to the Mongols: initially their threat and latterly the opportunities for alliance. The module will examine the crusades of the Louis IX, in their wider context; the arrival of the Mongols in the West and the creation of Mongol states there; the foundation of the Mamluk Sultanate; and the beginnings of the Mongol-Mamluk conflict and of attempts to create an Ilkhanid-Latin alliance. We will look in some depth at a variety of sources, especially focusing on the account of Louis IX's crusade by John of Joinville, and the accounts of two Franciscan travelers in the Mongol Empire, John of Plano Carpini and William of Rubruck.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Middle East Studies and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr A D Stewart			
Lecturer(s)/Tutor(s):	Dr A D Stewart			

ME4998 Honours Dissertation in Mediaeval Archaeology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
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 7,500 - 10,000 words on a topic in Mediaeval Archaeology for Honours students in the Mediaeval History and Archaeology degree. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Compulsory for Mediaeval History and Archaeology.			
Anti-requisite(s):	HI4997, HI4998, HI4999			
Learning and teaching methods and delivery:	Weekly contact: Tutorials as required.			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
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 Co-ordinator:	Dr A Woolf			
Lecturer(s)/Tutor(s):	Dr A Woolf			

Modern History (MO) modules

MO3005 The Early Reformation in Europe (1517 - 1555)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr M McLean			
Lecturer(s)/Tutor(s):	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:	2015/6			
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):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3049	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

MO3025 Empire and Nation: The Development of Colonial British America 1607 - 1770				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module will explore the cultural and social aspects of European settlement in British North America, with a view to introducing students to the factors that shaped and challenged the formation of these new societies. Special emphasis will be placed on the wide-range of expectations and experiences that early settlers had of their New World and the effect of these forces on the ensuing colonies. The module will also address the question of an emerging American culture and identity and its relationship to metropolitan-colonial interaction.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr E Hart			
Lecturer(s)/Tutor(s):	Dr E Hart			

MO3027 Women and Men in Europe (1500 - 1800)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr B Heal			
Lecturer(s)/Tutor(s):	Dr B Heal			

History - Honours Level - 2015/6 - September 2015

MO3038 War and the State in the Era of the "Military Revolution" (1550 - 1730)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof G Rowlands			
Lecturer(s)/Tutor(s):	PProf G Rowlands			

MO3040 From Cradle To Grave: Living and Dying in Early Modern England (c. 1500 - 1800)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores life and death in England during a period of profound social, political, economic, religious and legal change. Topics which may be covered include family, community, society, agriculture, industry and the organic economy, poverty and its relief, young and old, male and female, population and its determinants, the body and physical health, mental health and suicide, death. Using printed or online primary source material and secondary reading will enable students critically to summarise and evaluate scholarly arguments, assess the nature and value of historical debate, and gain insights into the long-lost material environment and mental world of this fascinating period.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3015	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

MO3041 Culture and Mentalities in Early Modern England (c. 1500 - 1800)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores aspects of English life, behaviour and attitudes in a period of profound social, political, economic, religious and legal change. Topics which may be covered include religion: the development of mainstream religions, 'alternative' belief (inc. astrology and witchcraft), technology and the rise of science, environment, consumption and the world of goods, recreation and leisure, education, literacy and their uses, time, space and work, individualism and corporatism, risk and probability, crime and violence, patterns of punishment. Using printed or online primary source material and secondary reading will enable students critically to summarise and evaluate scholarly arguments, assess the nature and value of historical debate, and gain insights into the long-lost mental world of this fascinating period.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3015	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof R A Houston			
Lecturer(s)/Tutor(s):	Prof R A Houston			

MO3043 Early Modern Rome (1300 - 1667)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module introduces students to the city considered the centre of the Western World and the heart of Christianity and later, Catholicism during the Reformation period. It examines the changing city as well as the its changing image and propaganda during a period when its primacy and importance was constantly and violently challenged and reasserted as a symbol of civilisation.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 13%, Coursework = 47%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr E Michelson			
Lecturer(s)/Tutor(s):	Dr E Michelson			

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MO3044 Topics in Renaissance Venice				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module introduces students to the history, culture, and politics of Venice at the height of its power. Renaissance Venice was simultaneously the capital of a maritime and terrestrial empire, a glittering international destination for trade and culture, and the site of controversial innovations like Protestant thought, ghettos, and the printing press. It was for much of this era the only European model of a lasting independent republic. Then and now, it has been subject to a compelling but contested effort in mythmaking and propaganda.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr E Michelson			
Lecturer(s)/Tutor(s):	Dr E Michelson			

MO3047 The Tudors: Power and Piety in Sixteenth-Century England				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3045, MO3908	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr J Rose			
Lecturer(s)/Tutor(s):	Dr J Rose			

MO3048 Witches and Witch-hunting in Early Modern Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will investigate the ways in which the 'witch' became a culturally significant figure in continental Europe between the fourteenth and seventeenth centuries, the object of intense legal, religious, political and cultural scrutiny and debate. Drawing on material from Germany, France, Italy and England the course will explain how and why the early modern period witnessed a 'witchcraze', a period of unprecedented persecution. It will ask how ideas about witchcraft and magic were shaped by the religious, social and political upheavals of the period. Throughout, it will draw on a wide variety of primary source material, both textual and visual.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr B Heal			
Lecturer(s)/Tutor(s):	Dr B Heal			

MO3049 Political Thought From Machiavelli to Tocqueville				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3019	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof R Whatmore			
Lecturer(s)/Tutor(s):	Prof R Whatmore			

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MO3050 The Northern World (1523 - 1725)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Histories of early modern Europe usually focus on the west and the south; more often than not the north is seen as a peripheral latecomer to the European party. This module will take issue with that assumption by looking at the northern world on its own terms. We will explore a wide range of sources, from sea-monster-filled maps to choral music, across a geographical area encompassing Scotland, Scandinavia, Germany, Poland-Lithuania, Livonia, and Russia. We will look at these lands from transnational and interdisciplinary perspectives, asking ourselves questions such as: how did the Little Ice Age shape culture? Why were seventeenth-century books on Lapland bestsellers? And, most importantly, was Sweden really Atlantis?</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-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr K Jackson Williams			

MO3080 The Iranian World from the Timurids to the Safavids (1370 - 1722)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Between the Middle Ages and the modern period, the Middle East was dominated by dynasties of Turkish origins. Militarily supported by Turkish tribesmen, often seeking legitimacy in the political ideals of the great nomadic conquerors of the 13th-14th centuries, these dynasties also patronised a renaissance of Persian culture, and the greatest of them, the Safavids, laid the foundations for the modern Iranian state. This module investigates how the Iranian world - including central Asia and eastern Anatolia - was shaped by these Turkic dynasties, especially the Timurids and Safavids, and the interplay of different cultural and ethnic forces that shaped the early modern Middle East. The course will make extensive use of the primary sources in English translation as well as the secondary literature.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval Studies, Middle East Studies, Modern History			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A Bdaiwi			
Lecturer(s)/Tutor(s):	Dr A Bdaiwi			

MO3081 The Classical Ottoman Empire				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module studies the development and culture of the 'classical' Ottoman Empire, from its definitive establishment in the middle of the fifteenth century into the seventeenth century. Themes include Ottoman expansion in Europe and the Middle East; centralisation and its discontents; relations with neighbours, such as Safavid Iran, the Habsburg Empire, and the Portuguese in the Indian Ocean; and Ottoman attitudes toward their empire and the wider world. In addition to knowledge of important historical events, this module aims to provide an introduction to the culture and social composition of the empire in the period under examination.</p>				
Programme module type:	Optional for History, Mediaeval History, Mediaeval History and Archaeology, Mediaeval Studies, Middle East Studies, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	Anti-requisite(s):	ME3610	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr D Kastritsis			
Lecturer(s)/Tutor(s):	Dr D Kastritsis			

MO3110 African Americans in Slavery and Freedom, 1620 - 1865				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>An exploration of the experiences of Africans in America from the beginnings of slavery until the American Civil War. The module focuses on the social, cultural and economic aspects of African slavery and freedom during the era in which America was transformed from a colony into a new nation. In particular we will address diversity of experience with discussions of slaves who worked on the land, in the cities, and on the seas. Attention will also be devoted to the Atlantic slave trade, how societies construct race, the world of America's slave owners and memory and slavery.</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-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr E Hart			
Lecturer(s)/Tutor(s):	Dr E Hart			

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MO3162 Early Modern Scotland in the age of British Unions (1603-1707)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
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 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof S Murdoch			
Lecturer(s)/Tutor(s):	Prof S Murdoch			

MO3163 Scotland and the Wider World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof S Murdoch			
Lecturer(s)/Tutor(s):	Prof S Murdoch			

MO3166 Debating Britain: Anglo-Scottish Unionism 1521 - 1707				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof R Mason			
Lecturer(s)/Tutor(s):	Prof R Mason			

MO3214 The Decline and Fall of the French Old Regime (1715 - 1789)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Eighteenth-century France was the cultural leader of Europe, but mounting domestic difficulties made its efforts to remain the arbiter of power on the continent increasingly difficult to sustain. At home the absolute monarchy had great difficulty in adjusting to changing political, social and cultural expectations that would eventually engulf the Bourbon state as its international adventures produced financial bankruptcy. This module will explore France in the reigns of Louis XV and Louis XVI in order to understand the nature of old regime state and society, and the difficulties under which its people and rulers laboured. It will also give students the opportunity to engage with one of the most controversial subjects in European history: the origins of the French Revolution.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof G Rowlands			
Lecturer(s)/Tutor(s):	Prof G Rowlands			

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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:	1
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr S Easterby-Smith			
Lecturer(s)/Tutor(s):	Dr S Easterby-Smith			

MO3223 South Asia and the European Encounter (c. 1700 - 1857)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 5%, Coursework = 35%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A Yechury			
Lecturer(s)/Tutor(s):	Dr A Yechury			

MO3263 British Culture in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.standrews.ac.uk/history/infoug/ugtimetable			
	<p>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.</p>			
Programme module type:	Optional for History, Modern History, Scottish History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

MO3302 Imperial Russia 1815 - 1917				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>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.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

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MO3314 History of Environmentalism: The Politics of Nature in the Western World (c. 1800 to Present)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>Recently, a number of people have suggested that the post-Cold War era should be recognized as 'the Age of the Environment'. The scale and pace of human-generated environmental change, which has occurred in the wake of the Industrial Revolution, is historically unprecedented. This module explores the roots of modern environmentalism through an examination of environmental change and the cultural responses to it. Key texts from the USA and Britain provide a focus for analyses of the political, religious, and scientific beliefs that have shaped relationships with nature. Principally, this module provides an intellectual and political history of modern environmentalism from the eighteenth century to present. No scientific knowledge is required by students.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr J Clark			
Lecturer(s)/Tutor(s):	Dr J Clark			

MO3317 A 'Struggle for Mastery in Europe'? German Foreign Policy from Bismarck to Hitler, 1871-1939.				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>'What is wrong with Germany,' A.J.P. Taylor once observed provocatively, 'is that there is too much of it.' After two World Wars, it seemed that because of its size, geopolitical position and power-political ambitions, the German Reich had posed a threat to Europe ever since 1871. Starting from the observation that the foundation of the Reich was followed by more than forty years of European peace, however, recent research has emphasised the ambiguity of Germany's role in international politics. This module will trace the course of German foreign policy from the Franco-Prussian War, through the Bismarck and Wilhelmine periods, the First World War and the inter-war years until the outbreak of World War Two. While focusing on the major foreign-political developments between 1870 and 1939, the course will also consider the instruments of German foreign policy; the social, economic and cultural forces influencing it; and major historiographical debates which have arisen over it.</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 hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 25%, Coursework = 55%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof F L Müller			
Lecturer(s)/Tutor(s):	Prof F L Müller			

MO3319 Power without Responsibility? The British Press and Politics (1850 - 1939)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will examine the role of the press in the developing political culture in Britain from the mid-nineteenth century to the coming of the Second World War. In this period the British press is widely believed to have exercised a degree of political influence not seen either before or since. The module will evaluate the formulation and construction of new political, social and cultural concepts during a period of rapid and continuous change. In part this was the result of fundamental changes transforming society and the economy such as the rise of assertive imperialism, the growth of universal franchise and literacy, the impact of the First World War, long term economic decline, and changing attitudes toward the people - the reading, voting and consuming public. These changes acted simultaneously on the media and political worlds and necessitated reciprocal adjustment by both. Other changes, such as innovations in communication technology, impacted primarily upon the media and were responsible for changes in political practice.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: Lecture and seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

MO3320 Imperialism and Nationalism: The British Empire in India 1857 - 1947				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: Weekly lecture and seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

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MO3321 Russia - Real and Imagined: Ideas, Identity, and Culture (1800 - 2000)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>Situated on the borders of Europe and Asia, Russia has always been an enigma for Western observers and scholars, by turns inspiring admiration as the exotic 'other', and discomfort as the untamed brutish bear. Yet, this conflicting 'sacred/profane' image has been as much a part of intellectual rhetoric in Russia itself, as it has been the cause for divided opinion abroad. As Russian intellectuals thought about their country's cultural (and spiritual) development, past and present, they often did so 'under Western eyes'. Whether critical or indulgent, their views testify to complex inter-relations with European neighbours. With this in mind, we shall explore a number of leitmotifs in Russian intellectual culture, together with the contexts in which these were first elaborated. In addition, we shall identify instances of their recurrence as a 'resource' in late and post-Soviet endeavours to re-articulate the 'authentic' nature of Russian culture.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

MO3323 Splendid Isolation or Continental Commitment? Britain and Europe (1814 - 1914)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>British armies made a crucial contribution to winning the Napoleonic Wars and the First World War. During the century that divides these conflicts Britain emerged as a global super-power. For decades her commercial, industrial, financial, imperial and naval clout were unrivalled. And yet, throughout this period Britain's relationship with the European continent across a narrow strip of water remained curiously vacillating between an almost isolationist detachment and a serious "Continental Commitment" (M. Howard). This module will investigate Britain's European policy in a number of key fields as well as consider central interests and influences which shaped it. It is hoped that participants will complete the module with a gratifying feeling of having gained a better understanding of Britain's attitude towards, and role in, nineteenth-century 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 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof F Müller			
Lecturer(s)/Tutor(s):	Prof F Müller			

MO3332 Central Europe From Belle Epoque to Bloodlands				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>In the nineteenth century, Central Europe was the place where the multi-ethnic empires of the Habsburgs, Hohenzollerns, Ottomans and Romanovs brushed sides. The end of serfdom, the extension of suffrage, and the rise of the popularity of nationalism as the only legitimate ideology of statehood legitimation slowly undermined the region's political shape, before it was dramatically altered in the wake of the Great War. The belle epoque was over. The subsequent fitting of borders to linguistically defined nations in quest of nation-states led to population expulsions and exchanges. Later, in Central Europe the two totalitarianisms of communism and national socialism clashed, killing millions in warfare and genocide, and forcing tens of millions from their homes. World War II produced a radically different Central Europe as we know it nowadays. Knowing about the processes and changes is necessary to understand the present-day eastern half of the European Union.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

MO3333 Nationalism and Language in Central Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>Language was the ideological and practical basis for the emergence of national movements in Central Europe in the nineteenth century, and for the subsequent creation of nation-states in the region during the following century. This is often acknowledged but rarely explored. This module will investigate the process of making ethnolinguistic nations and their polities, the ideological and political underpinnings of this process, and their social ramifications in a comparative and interdisciplinary framework, over the time-span running from the Napoleonic Wars to the breakup of Yugoslavia. The significance of ethnolinguistic nationalism for the current situation in the region and for the situation in present-day Belgium, Northern Ireland and Spain will also be discussed.</p>			
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr T D Kamusella			
Lecturer(s)/Tutor(s):	Dr T D Kamusella			

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MO3335 The Japanese Empire and its Aftermath (1873 - 1952)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: Take-Home Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr K Lawson			
Lecturer(s)/Tutor(s):	Dr K Lawson			

MO3337 China's Revolutions (1850 - 1989)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: Take-Home Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr K Lawson			
Lecturer(s)/Tutor(s):	Dr K Lawson			

MO3346 Politics, Culture and Society in the French Revolution (1789-1815)			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2015/6		
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):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3221
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%		
Module Co-ordinator:	Dr S Easterby-Smith		
Lecturer(s)/Tutor(s):	Dr S Easterby-Smith		

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MO3351 Doing and Practicing Transnational and Global History in the Late Modern World			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<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 team-taught 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):	Permission of the History Honours Adviser		
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: 33 hours	Guided independent study: 267 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 Co-ordinator:	Dr N Papadogiannis		
Lecturer(s)/Tutor(s):	Dr N Papadogiannis, Dr K Lawson and Dr B Struck.		

MO3385 Modern Iran since 1834: Reform and Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/info/ugtimetable			
<p>This module looks at developments in Iranian history from the 19th century to the present with particular reference to the impact of the West. The module will assess the various attempts at reform and the consequences of revolution in a country which is proving to be a major regional and international actor in the 21st century. The module will look at the way in which imperial decline has been managed with a view to reversing and restoring Iran's fortunes as a Great Power. Particular attention will be given to political development. The growth of the modern state and the emergence of nationalism and political Islam.</p>				
Programme module type:	Optional for History, Middle East Studies, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser	Anti-requisite(s):	MO3327	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof A M Ansari			
Lecturer(s)/Tutor(s):	Prof A M Ansari			

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MO3404 Britain in the Era of the Great War				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module will deal with the effects of the Great War upon British politics and society. Topics will include: the preparation for war, militarism, political and military leadership, the war in the trenches, war poetry, the effect of the war upon women and the working class, the legacy of the war, etc. Military campaigns will not be studied in great detail.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
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 = 16%, Coursework = 24%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework - 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof G De Groot			
Lecturer(s)/Tutor(s):	Prof G De Groot			

MO3419 The French 'Civil Wars' of the Twentieth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Availability restrictions:				
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores the notion that twentieth-century French history can be seen in terms of 'Franco-French wars', between opposing ideologies, social classes, and conceptions of French identity. Beginning with an introduction to the most important issues which have divided the French since 1789, the module examines episodes such as the Second World War occupation, the difficult break-up of the French empire, and the May 1968 'revolution', focusing on the central themes of unity and division. The module concludes by looking at the effect that the legacies and memories of conflict and division have had on contemporary France.				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr N Papadogiannis			
Lecturer(s)/Tutor(s):	Dr N Papadogiannis			

MO3421 Making People's Music: Folk Music Revival and Society in the United States (1900 - 1970)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explores the development of the relationship between folk music revival and wider society in the twentieth century United States. During the late 1950s and early 1960s, folk music attained an unprecedented level of popularity in the US, particularly among politically active young people. As it became the ideal medium through which to express the desire for social change and ideals of community and solidarity, a new generation of perceptive songwriters - including Tom Paxton, Joan Baez and Bob Dylan - became vital spokespeople for their generation. The module aims, through use of primary texts, films and music, to examine and to evaluate this movement from its roots to its legacy.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 27%, Coursework = 13%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr G A M Mitchell			
Lecturer(s)/Tutor(s):	Dr G A M Mitchell			

MO3422 The United States in Depression and War (1929 - 1945)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr G A M Mitchell			
Lecturer(s)/Tutor(s):	Dr G A M Mitchell			

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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:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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.</p>				
Programme module type:	Optional for History, Modern History and B.A. (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr N Papadogiannis			
Lecturer(s)/Tutor(s):	Dr N Papadogiannis			

MO3424 De-colonising Asia (c. 1914 - 1975)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The twentieth century for Asia has been marked by a transition from colonial rule to post-colonial nation-states. This module will take a closer look at the growth of nationalism and the processes of decolonisation in Asia within a broad comparative frame. It will examine the different colonial experiences and how they shaped the process of decolonisation. It will explore the connections and ties between now independent and separate nation-states. Ultimately, it will ask if it is possible to speak of a post-colonial Asian identity in the twentieth century.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr A Yechury			
Lecturer(s)/Tutor(s):	Dr A Yechury, Dr K Lawson, Dr S Tyre			

MO3502 War and Welfare: Britain 1939 - 1951				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module covers the period from the outbreak of war in 1939 to the end of the Attlee Governments in 1951. The emphasis will be on the social, cultural, economic and political impact of the war on Britain. It will examine whether wartime experiences led to consensus in favour of a comprehensive welfare state, and how the social, economic and political consequences of the war determined the shape of the welfare state which Labour brought into being after 1945.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO3514 The Life and Times of the Atom Bomb				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Prof G de Groot			
Lecturer(s)/Tutor(s):	Prof G de Groot			

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MO3516 Popular Culture, Nation and Society: Leisure in Britain 1880 - 1960				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	Dr J J Nott			

MO3520 History, Memory and Identity in Postwar Western Europe (1945 - 2005)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
As Gabriel Almond and Sidney Verba put it in their highly influential study on The Civic Culture, the political culture of a nation is 'the particular distribution of patterns of orientation towards political objects among the members of the nation'. Which 'patterns of orientation', i.e. attitudes, basic beliefs and values, can be discerned in postwar European democracies? This is the basic question of this module. By taking the intriguing historiographical triangle of history, memory and identity as a heuristic starting point, the module aims at examining the different ways of coping with recent pasts in Germany, Italy, France and Britain. This allows revealing insights in various historical narratives and streams of political thought in postwar Europe, hence in crucial aspects of Western European political culture between 1945 and 2005.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

MO3523 Postcolonial Europe: Empire and its Legacies in Western Europe since 1945				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
What did empire mean to Europeans in the twentieth century, and in what ways have colonialism and its legacies shaped the history of Europe since the end of formal imperial rule between 1945 and 1980? This module looks at postwar Western Europe through an imperial lens, applying new perspectives from the field of postcolonial studies. The module covers three main themes: the question of what empire and its loss meant to the colonisers; migration from former colonies to Europe and its consequences; and the memory, representation and historiography of empire. Focusing mainly on Britain and France but also looking at Belgian, Dutch and Portuguese examples, the module uses a wide range of sources and approaches to explore cultural, social and political aspects of post-colonial Europe.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Pre-requisite(s):	Permission of the History Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: Take-Home Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%			
Module Co-ordinator:	Dr S Tyre			
Lecturer(s)/Tutor(s):	Dr S Tyre			

MO4805 The Scottish Enlightenment				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed			
This module explores the Scottish Enlightenment, an extraordinary phase of cultural and intellectual achievement associated with names like David Hume, Adam Smith, William Robertson, Allan Ramsay, Joseph Black and Sir Walter Scott. The class will work with eighteenth-century published works and other original sources in seeking to interpret the philosophical, historical, scientific and literary activities of the period.				
Programme module type:	Optional for History, Modern History, Scottish History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr D Allan			
Lecturer(s)/Tutor(s):	Dr D Allan			

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MO4806 Britain and the Thirty Years' War (1618 - 1648)				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed.			
<p>This module 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.</p>				
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: 88 hours		Guided independent study: 512 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 Co-ordinator:	Prof S Murdoch			
Lecturer(s)/Tutor(s):	Prof S Murdoch			

MO4807 The Marian Moment: Politics and Ideology in Mary Stewart's Britain 1542 - 1587				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed			
<p>The life of Mary Stewart (1542-1587) is among the best known and most highly mythologised of all British monarchs. Queen of Scots more or less from birth, she also possessed a strong claim to the throne of England and it was as much her dynastic rights as her personal charms that led to the series of marital adventures that have so preoccupied her biographers. Yet while her career needs to be firmly situated in the context of sixteenth-century dynastic politics and diplomacy, it is important also to recognise that her life and reign generated a range of ideological debates that proved critical in crystallising and developing early modern thinking on such issues as the role of women in government, the rights of the people to resist tyranny, religious confessionalisation, and the meaning of Britain. Using a range of contemporary record and literary sources, this module uses Mary's life as a focal point for exploring these ideological issues as they developed in England as well as Scotland in the years from the 1540s to the 1580s.</p>				
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: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Prof R Mason			
Lecturer(s)/Tutor(s):	Prof R Mason			

MO4850 Britain and Iran in the Modern Era				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Wed am			
This module will discuss and analyse the often intimate relationship between Iran and Britain in the modern period, focusing on the initial diplomatic contacts in the early 19th century when Britain sought an ally against Napoleon, to the apogee of British power and influence in Iran from the end of the 19th century until the nationalisation of the Anglo-Iranian Oil Company in 1951-53. The module will not only look at broader strategic aspects of the relationship, especially with growing British interests in India, but also analyse the growing economic relations between the two countries, as well as ideological and cultural developments, concluding with a discussion of the British conception of 'Persia'. English language documents will be used throughout the module.				
Programme module type:	Optional for History, Middle East Studies, Modern History and BA (Intl Hons) History.			
Anti-requisite(s):	MO4957			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Prof A M Ansari			
Lecturer(s)/Tutor(s):	Prof A M Ansari			

MO4903 Blood, Courts and Glory: The Catholic Reformation				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module offers a study of the variety of reform movements which sprang up within the Catholic Church in the late Mediaeval and Early Modern periods. Through an examination of a rich variety of sources, the module will examine, among other themes, the power struggles of the fifteenth century, the relationship between the Renaissance and religion, missions in the New World, the Inquisition, new religious orders, and the tension between Tridentine Catholicism in Rome and the local practice of religion. Students will consider the bonds between belief, politics and culture in the Early Modern period.				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 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 Co-ordinator:	Dr E D Michelson			
Lecturer(s)/Tutor(s):	Dr E D Michelson			

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MO4912 French Absolutism: Richelieu to Louis XIV				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>This module studies the establishment of stability and the growth of the royal state in France during the period 1610-1715. It examines both the theory and the practice of absolute monarchy and the way such a system of governance related to the wider French society. From the late 1620s traditional mechanisms of government were gradually recast and replaced by more centralised methods of political, social and cultural control. However, the encroachment of the royal state upon civil society met with both popular and elite resistance that had to be either crushed or defused through compromise deals before stability could emerge under Louis XIV. 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: 77 hours		Guided independent study: 523 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 Co-ordinator:	Prof G Rowlands			
Lecturer(s)/Tutor(s):	Prof G Rowlands			

MO4932 Russians Making History (1755 - 2000)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>How did Russians write about their past? What conceptual tools did they use? What influenced their approaches, and privileged their choice of subject matter censorship, ideology, the latest philosophical fashions in Western Europe, the quest for truth? Was the Bolshevik Revolution a tabula rasa for historical knowledge, or just one of the more striking examples of the peculiar pendulum swings that have rocked Russia between revolution and reform throughout her entire history? The aim of this module, then, is twofold: to discover the works (and personalities) of a number of Russian historians active in the eighteenth, nineteenth, and twentieth centuries and, through their eyes as professionals or amateurs re-examine aspects of the Russian past.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr F Nethercott			
Lecturer(s)/Tutor(s):	Dr F Nethercott			

MO4936 Bismarck: Biography - Politics - Mythology				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Wed am			
<p>A celebrated recent history of German accorded Otto von Bismarck almost biblical status. The book opens with a thunderous: 'In the beginning was Bismarck'. An opinion poll published by the 'Berlin Illustrated News' in 1899 declared him the greatest statesman of the century. This module aims to approach, understand and evaluate the life, career and personality of this alleged giant. Scrutinising a large selection of primary sources and drawing on a rich body of sophisticated secondary literature, we will try to appreciate Bismarck both as a shaper and a product of his time. Consideration will also be given to Bismarck's legacy in European and German politics as well as his role and function in the pantheon of Germany's political iconography.</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: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 14%, Coursework = 26%			
	As used by St Andrews: 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 Co-ordinator:	Prof F L Muller			
Lecturer(s)/Tutor(s):	Prof F L Muller			

MO4937 Charles Darwin and the Politics of Progress				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 12.00 noon Wed			
<p>'Darwin' and 'Darwinism' have left considerable historical legacies that pervade our contemporary culture. This module demonstrates how knowledge of the natural world in the nineteenth and twentieth centuries was shaped by religious, political, and social commitments; and how science, in turn, shaped general culture. Drawing upon the rich primary and secondary sources generated by the Darwin industry, this module examines progress and evolutionary theories. With reference to evolution, in general, and Charles Darwin, in particular, the module examines the implications of a belief in a constantly changing world, governed by natural laws. The module concludes with an assessment of the more recent 'Darwin wars', creationism, and Intelligent Design.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 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 Co-ordinator:	Dr J F M Clark			
Lecturer(s)/Tutor(s):	Dr J F M Clark			

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MO4949 Debating Indian Futures: From Empire to Republic (1917 - 1950)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>India was central to the British imperial system and represented the first seminal case in which a subject peoples raised and pressed the case for significant self-government. This module considers the nature of this challenge and the political and popular response it evoked in Britain in a series of constitutional reforms, beginning with the Montagu-Chelmsford Declaration of 1917, to the granting of Independence and Partition in 1947 and culminating in a study of the formative years of the newly independent India, 1947-1950. Throughout, the focus will be upon the process by which those reforms were arrived at and the competing perspectives on these problems. As such it will provide an in-depth analysis of British attitudes to 'the problem of empire' in the climactic years after the end of the First World War and the battle of ideas and interests which constituted the debate over India's - and by implication, the Empire's future.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr C Kaul			
Lecturer(s)/Tutor(s):	Dr C Kaul			

MO4952 The Kennedy Years				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<p>This module will cover America in the 1960s, through the careers of John, Robert and Edward Kennedy, in the process demonstrating how the political landscape which brought John Kennedy to the White House in 1961 was destroyed by 1969.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Anti-requisite(s):	MO3513			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Prof G De Groot			
Lecturer(s)/Tutor(s):	Prof G De Groot			

MO4959 British Cinema History (1920 - 1960)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Wed am			
<p>This module will examine the relationship between film and British society, from the 1920s to the 1960s. It explores the significance of film as a critical medium of cultural communication through which ideas, values, and understandings of contemporary society and of 'history; are expressed, mediated and shaped. We will ask how films construct the world they seek to represent. The films used will address critical issues and problems that have shaped Twentieth Century British society and culture: national identity, politics and political leadership, social class and mobility, gender roles, race and major historical events such as the Depression, World War II and the growth of the Welfare State.</p>				
Programme module type:	Optional for History, Modern History and BA (Intl Hons) History.			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr J J Nott			
Lecturer(s)/Tutor(s):	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:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed			
<p>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.</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: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Dr S Tyre			
Lecturer(s)/Tutor(s):	Dr S Tyre			

History - Honours Level - 2015/6 - September 2015

MO4970 Revolutions and Empires (1776 - 1848)				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	Wed am			
<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: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
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 Co-ordinator:	Prof R Whatmore			
Lecturer(s)/Tutor(s):	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:	2015/6			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	Wed am			
<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: 88 hours		Guided independent study: 512 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 Co-ordinator:	Dr K Lawson			
Lecturer(s)/Tutor(s):	Dr K Lawson			

MO4972 Understanding Resistance and Protest in Modern India (c. 19th-21st Century)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	Wed am			
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: 88 hours		Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2 x 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 Co-ordinator:	Dr A Yechury			
Lecturer(s)/Tutor(s):	Dr A Yechury			

MO4973 Twentieth-Century Germany: A Sense of Place				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	9.30 am - 12.30 pm Wed			
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: 88 hours		Guided independent study: 512 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 Co-ordinator:	Dr R Bavaj			
Lecturer(s)/Tutor(s):	Dr R Bavaj			

History - Honours Level - 2015/6 - September 2015

MO4974 The British Town in the Long Eighteenth Century			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6		
Availability restrictions:	Available only to students on the second year of the Honours Programme.		
Planned timetable:	10.00 am - 1.00 pm Wed		
<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: 88 hours	Guided independent study: 512 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 6%, Coursework = 54%		
	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 Co-ordinator:	Dr E Hart		
Lecturer(s)/Tutor(s):	Dr E Hart		

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 properly qualified to enter the module.

International Relations (IR) modules

IR3004 International Political Economy			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6		
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: 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 Co-ordinator:	Dr W B Vlcek		
Lecturer(s)/Tutor(s):	Dr W B Vlcek		

International Relations - Honours Level - 2015/6 – January 2016

IR3006 International Regimes and Organisations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	3.00 pm 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: 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 Co-ordinator:	Dr R Jakelbro			
Lecturer(s)/Tutor(s):	Dr R Jakelbro			

IR3008 International Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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: 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 Co-ordinator:	Dr R Singh			
Lecturer(s)/Tutor(s):	CSTPV staff			

International Relations - Honours Level - 2015/6 – January 2016

IR3015 Religion, Politics and Democracy				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Wed			
<p>This module explores the relationship between religion and politics, focusing in particular on issues of religion, democracy and democratisation. To that end it will start by introducing social scientific theories relating to religion and society and, using particular cases, will raise the question of where religion belongs in increasingly secularised political orders. These cases will vary from year to year, but are likely to focus on issues relating to church and state in Europe, the impact of the Christian Right in the USA, the contribution of Catholicism to democratisation in Latin America and eastern Europe, the relationship of political Islam to democracy, the rise of 'electoral Islam' in countries such as Turkey, the special challenges posed to established democracies by growing religious pluralism, and the impact of Hindu nationalism on the nature of Indian democracy.</p>				
Programme module type:	Optional for International Relations 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 Co-ordinator:	Mr J-H Valk			
Lecturer(s)/Tutor(s):	Mr J-H Valk			

IR3021 Case Studies in Conflict Analysis				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon Mon			
<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: 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 Co-ordinator:	Dr T Shepperd			
Lecturer(s)/Tutor(s):	Dr T Shepperd			

International Relations - Honours Level - 2015/6 – January 2016

IR3022 International Relations and International Law				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am Wed			
<p>This module revolves around several questions, "is international law really 'law'?"; "do international law and norms matter?"; and "what are the interactions between international relations and international law in practice?" The readings first examine the state-centered approach of traditional international relations scholarship and much of international legal scholarship, and then examine international relations scholarship regarding the influence of norms and the development of institutions, with an eye to the role of constructivist literature. The module will turn to particularly contentious issue-areas, such as the concept of legitimacy in the international system; the "emerging right to democratic governance"; humanitarian intervention; changing conceptions of sovereignty in light of human rights jurisprudence in regional courts; the role of the International Court of Justice and international tribunals; and the proliferating practice of international criminal law.</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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

IR3023 US Foreign Policy: The Dilemmas of Empire				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	4.00 pm Mon			
<p>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.</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 Co-ordinator:	Dr G Bailey			
Lecturer(s)/Tutor(s):	Dr G Bailey			

International Relations - Honours Level - 2015/6 – January 2016

IR3024 The Politics of Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am Mon			
<p>This module provides an introduction to the study of African politics. Contemporary Africa is complex and varied: the continent consists of around fifty states with very different histories, colonial experiences, economies, values, and social structures. The module reviews the social and historical context of contemporary political life, looking at the changes the continent has undergone since independence. It will examine and seek to understand the colonial legacy, the nature of the post-colonial state, society and its institutions, the nation-building projects and policies of these states and the movement towards democratisation and the continuation of authoritarian rule through "low intensity democracy".</p>				
Programme module type:	Optional for International Relations 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 Co-ordinator:	Prof I Taylor			
Lecturer(s)/Tutor(s):	Prof I Taylor			

IR3025 International Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am Wed			
<p>This module provides a general overview of international security affairs using a variety of conceptual perspectives, ranging from orthodox realist and liberal approaches to more recent critical theories. It also covers traditional issues of security studies such as the offence-defence balance, alliance formation, and collective security, as well as the 'new security agenda' involving societal security, environment, public health, and related problems.</p>				
Programme module type:	Optional for International Relations 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

International Relations - Honours Level - 2015/6 – January 2016

IR3026 Diplomacy and Conflict Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	2.00 pm Thu			
This module will explore the changing nature of diplomacy as it relates to conflict intervention, including the differences between the old and the new diplomacy and the range of governmental and non-governmental actors in conflict intervention, from encouraging and facilitating dialogue to economic sanctions to monitoring human rights, to peacekeeping and peace -enforcement, to forums for addressing past injustice. These forms of intervention will be critically analysed against the background of globalisation.				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Prof K M Fierke			
Lecturer(s)/Tutor(s):	Prof K M Fierke			

IR3029 The Logic of Irregular Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am Mon			
The purpose of this module is to examine the dynamics of violence in three distinct forms of irregular armed conflict: civil wars, insurgencies and guerilla wars. Its starting point is that the twentieth century has witnessed a shift from traditional forms of warfare to these three distinct forms of irregular war and that this shift demands a reconsideration of the way that warfare is studied. Using theoretical approaches to the subject, as well as historical case studies, it will identify the dynamics of irregular warfare in the twentieth century, trace the diverse motivations and strategies implicit in different kinds of irregular warfare, and discuss the implications of this shift for those responsible for countering irregular warfare.				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

International Relations - Honours Level - 2015/6 – January 2016

IR3030 Human Rights in Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	1.00 pm 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: 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 Co-ordinator:	Dr J P Hayden			
Lecturer(s)/Tutor(s):	Dr J P Hayden			

IR3031 Globalisation and the War on Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm Fri			
<p>This inter-disciplinary module introduces students to various conceptual frameworks for thinking about the war on terror in an age of globalisation, along with a range of empirical case studies designed to illustrate these theoretical debates. A selection of readings is provided, ranging from international relations to other contributions from sociology, criminology, philosophy, history and political science. Theoretical issues examined include globalisation as a new security paradigm; the notion of a globalised War Risk society; the clash of civilisations vs. the continued relevance of realism; and re-defining what 'war' means in the war on terror. Case studies comprise NATO's transformation; war on Iraq; and emerging non-military attempts at global governance in controlling terrorism.</p>				
Programme module type:	Optional for International Relations 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: 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 Co-ordinator:	Dr A Kupatadze			
Lecturer(s)/Tutor(s):	Dr A Kupatadze			

International Relations - Honours Level - 2015/6 – January 2016

IR3033 Post-Conflict Transition in Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J R McMullin			
Lecturer(s)/Tutor(s):	Dr J R McMullin			

IR3041 International Political Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	2.00 pm Mon			
<p>This module introduces students to international political theory, or the use of ethical, political and legal theory to evaluate various international practices. Unlike IR theory, IPT is primarily normative in orientation, drawing on both the history of ideas and current political and ethical theory to give students tools for evaluating international affairs rather than simply explaining them. It addresses topics such as war, economics, environmental issues, law, and religion.</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 = 40% 50% , Coursework = 60% 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof A F Lang			
Lecturer(s)/Tutor(s):	Prof A F Lang			

IR3042 Representations of Violent Conflict: Research Seminar				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Wed or Thu			
<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, and occasional film viewing and case study workshops.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J McMullin			
Lecturer(s)/Tutor(s):	Dr J McMullin			

IR3045 Violence in Deeply-Divided Societies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	3.00 pm Tue			
<p>Bloodshed is what tends to keep divided societies in the headlines: yet the nature of this violence often remains under-examined as a political force in its own right. This module seeks to explain what drives processes of violence in deeply divided societies with particular emphasis on what happens at the grassroots and between communities. The module combines theory with in-depth consideration of four case studies from across Europe and the Middle East, taking a longer-term view of conflict in Northern Ireland, Yugoslavia, Israel/Palestine and Iraq.</p>				
Programme module type:	Optional for International Relations and 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: 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 Co-ordinator:	Dr T Wilson			
Lecturer(s)/Tutor(s):	Dr T Wilson			

International Relations - Honours Level - 2015/6 – January 2016

IR3048 Peacekeeping and Humanitarian Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am 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: 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 Co-ordinator:	Dr N MacQueen			
Lecturer(s)/Tutor(s):	Dr N MacQueen			

IR3049 International History and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am Mon			
<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: 46 hours	Guided independent study: 254 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof A J Williams			
Lecturer(s)/Tutor(s):	Prof A J Williams			

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IR3050 State, Power, Crime				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am - 12.00 noon 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: 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 Co-ordinator:	Dr H Cameron			
Lecturer(s)/Tutor(s):	Dr H Cameron			

IR3051 International Relations Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm Mon			
<p>This module provides a more in depth exploration of theories of IR by focusing on some key theorists in the discipline. It will also demonstrate to students the utility of theory and method in the study of international relations, differentiating theories of IR from theories of politics and foreign policy more broadly.</p>				
Programme module type:	Optional for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR2005 and IR2006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof A F Lang			
Lecturer(s)/Tutor(s):	Prof A F Lang			

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IR3052 The Politics of Violence and Resistance in Latin America			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Planned timetable:	2.00 pm Tue		
<p>This module analyses armed conflict and civil war, dictatorship and conflict transformation in the Latin American region. The module documents the conflicts of the twentieth century and seeks to understand to what degree they have been overcome or have evolved as a result of conflict transformation processes involving both national and international actors that accompanied regional democratisation. The module engages with theoretical approaches central to core subjects of international relations and political science, juxtaposing said theoretical analyses with discussions based upon comparative empirical research in the region. The module is of relevance to students interested in Latin America and in those conceptual frameworks relating to conflict and peace studies and introduces broader academic discussions relating to theories of conflict, peacebuilding, the State, social movements, democracy and human rights. The module will also provide instruments to those students interested in developing a career in public policy and policy-making in national and international institutions.</p>			
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr R Brett		
Lecturer(s)/Tutor(s):	Dr R Brett		

IR3053 Peacebuilding and Post-Conflict Transition in Latin America				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon Tue			
<p>The module presents a detailed introduction to the process of conflict transformation in Latin America since the Third Wave of democratisation in the region during the 1980s. The approach taken in the module will be to contrast the theory and practice of conflict transformation and peacebuilding and will include a primary focus on the role and intervention of the United Nations System. In this regard, analysis will centre on conventional forms of peace-keeping, peace-making and peacebuilding supported by the United Nations, as well as on more innovative initiatives, in particular in local-level peacebuilding. The module engages with and evaluates key theoretical frameworks relating to conflict, peacebuilding, the State, democratization and sovereignty and will be relevant to students interested in developing a career in public policy and policy-making in national and international institutions. We will evaluate the impact of regional United Nations interventions, which will include an innovative analysis that juxtaposes elite peacebuilding practices with local-level peacebuilding initiatives. The module will include conferences from UN functionaries.</p>				
Programme module type:	Optional for International Relations and 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: 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 Co-ordinator:	Dr R Brett			
Lecturer(s)/Tutor(s):	Dr R Brett			

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IR3054 Mapping the Boundaries of Emerging and Evolving Securities			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Planned timetable:	12.00 noon - 1.00 pm Mon		
<p>This module aims to explore how security is conceptualised within the disciplines of Critical Security and Geopolitical Studies. The point of departure is to explore how security is made and unmade through processes of interaction. Addressing this issue raises several important questions about where the boundaries of security begin and end. Does it matter if the boundaries between different spheres of interaction overlap and criss-cross? How do these points of intersection coexist and interact? How can we map the construction and implementation of security in zones of visibility and invisibility?</p> <p>Our aim is to take these questions forward by unpacking several separate yet interrelated security issues ranging from the environment to flags to migration to torture and the media, among others established and emerging scholarly debates. Overall the course argues that the boundaries of security are not just material objects. Instead they are conceptualised as sites of linguistic contestation that empowers and disempowers different modes of action. Taking this viewpoint challenges the idea that the boundaries are becoming redundant in an age of globalization. Mapping how we speak about security, and how this language is put into practice, forces us to acknowledge while boundaries are changing they remain important emblems and modalities of international relations.</p>			
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr F Donnelly		
Lecturer(s)/Tutor(s):	Dr F Donnelly		

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IR3055 International Relations and the Internet			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6		
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: 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 Co-ordinator:	Mr G Ramsay		
Lecturer(s)/Tutor(s):	Mr G Ramsay		

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IR3056 Political Leadership: Theories and History			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6		
Planned timetable:	12.00 noon Wed		
<p>This module investigates the meaning, role, significance, value or ethics of political leadership in the western tradition. Its overall objective is to enable students to analyse and evaluate descriptive, historical, and normative arguments on the significance and function of political leaders in contemporary politics.</p> <p>The module examines competing theories of leadership in their historical and intellectual contexts; it analyses 'leadership' in relation to other political concepts such as sovereignty, democracy, rule of law, and patriarchy. The approach is theoretical and philosophical; examples of historical leaders (e.g. Mandela, Thatcher) will be used to highlight strengths and weaknesses of competing theories of leadership, and to emphasise their ideological assumptions and implications.</p>			
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr G Slomp		
Lecturer(s)/Tutor(s):	Dr G Slomp		

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IR3057 Armaments and International Relations			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2015/6		
Planned timetable:	10.00 am Fri		
<p>The goal of this course is to introduce students to academic debates and theoretical frameworks that give insights into the impact of armaments (their development, characteristics and proliferation) on international relations. As IR scholars have long recognized, the availability of modern armaments is a key determinant of the international distribution of power. Some have even gone so far as argue that the technological characteristics of armaments fundamentally determines the nature of the international state system. Meanwhile, certain policymakers and NGOs contend that arms dynamics (e.g. arms races and the spread of light weapons) contribute directly to the outbreak of wars. This course will equip students with the analytic tools needed to critically examine both these issues and others.</p> <p>To accomplish this objective, the course will first (weeks 2-5) examine broad theories about how the development of distribution of armaments affects the international state system. Then, the course will focus (weeks 6-7) on the particular issue of whether the 'excessive' production and/or availability of armaments can cause wars. Finally, in the course's three last sessions (weeks 8-10), we will examine how contemporary phenomena—the globalization and Europeanization of arms production—are shaping this particular domain. Ultimately, the understanding that students will gain through this course will enhance their development as political scientists and their ability to work in fields as diverse as: government, NGOs, international organizations, and the corporate sector.</p>			
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr M DeVore		
Lecturer(s)/Tutor(s):	Dr M DeVore		

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IR3059 Anglo-American Relations Since 1939: The Special Relationship?				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	3.00 pm Mon			
<p>This module explains the coming together of the USA and Britain in the Second World War into what Churchill called a special relationship. Their defence, nuclear, economic and cultural relations from 1939 to the present will be examined both thematically/theoretically and historically. It will be demonstrated that the relationship cannot be explained solely in terms of common security interests (realism), or common values and sentiments (idealism), and that it challenges the norms of the existing sovereign nation-state system. If Anglo-American relations are indeed the special relationship, how do they differ from those with other nation states? What form has it taken over the years? Does it still exist?</p>				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr G Bailey			
Lecturer(s)/Tutor(s):	Dr G Bailey			

IR3061 International Political Theology: Christian Realism and Beyond				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am Tue			
<p>Situated within a recent reassessment of the relation between religion and international politics, this module is designed to investigate the theological dimension in international theory via an examination of Christian Realism and the Augustinian tradition in IR. In particular, the module revisits important theological moments in IR theory as exemplified in the work of Reinhold Niebuhr, Herbert Butterfield, Martin Wight and Hans Morgenthau and assesses the political theologies informing their thought. Finally, the module critically evaluates the recent revamping of political theology in international relations and examines the implications of recasting International Relations as a theo-political discourse for rethinking the global politics of religion.</p>				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr V Paipais			
Lecturer(s)/Tutor(s):	Dr V Paipais			

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IR3062 The United Nations since 1945				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am - 12.00 noon Thu or 2.00 pm - 4.00 pm Thu			
<p>This module is designed to place the United Nations in the broader perspective of contemporary international relations and to guide students towards an understanding of both the impact and the limitations of the UN in the post-1945 international system. The module considers the possible locations of the United Nations in the relevant theories of international behaviour (realism, liberalism etc.). In doing so, it explores the crucial interplay between state-level national interests and multilateral cooperation through global organisation, and the extent to which the United Nations can be considered a supranational as opposed to a strictly inter-governmental organisation. In pursuit of this the module explores the range of UN activities covering international law, development, the environment and global security.</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: 44 hours	Guided independent study: 256 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof M Pasha			
Lecturer(s)/Tutor(s):	Prof M Pasha			

IR3063 Organised Crime and Corruption				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am Wed			
<p>The module provides an overview of organised crime and corruption and its effects on the political, economic, and social development of countries around the world. It will discuss the increasingly global nature of transnational organised crime, its growing portfolio of illicit activities and its impact on regional and international security. The analysis will also address the complexities of criminal groups in different parts of the world and the policies to fight them.</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), 1-hour lecture (x 11 weeks) 1 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 47 hours	Guided independent study: 253 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 25%, Coursework = 35%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Kupatadze			
Lecturer(s)/Tutor(s):	Dr A Kupatadze			

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IR3064 Critical Terrorism Studies (SUBJECT TO APPROVAL)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm – 4.00 pm Mon			
<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: 2-hour seminar (x 11 weeks), 2 office consultative hours (x 12 weeks)			
	Scheduled learning: 46 hours		Guided independent study: 154 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 Co-ordinator:	Dr C Gentry			
Lecturer(s)/Tutor(s):	Dr C Gentry			

IR3065 Refugees and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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 11 weeks), 1-hour tutorial (x 11 weeks) 2 office consultative hours (x 12 weeks)			
	Scheduled learning: 46 hours		Guided independent study: 154 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 Co-ordinator:	Ms N Saunders			
Lecturer(s)/Tutor(s):	Ms N Saunders			

IR3101 Russian Politics and Foreign Policy after Communism				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Mon			
The module will explore the evolution of Russian politics from the collapse of Mikhail Gorbachev's reform programme to the present. There will be a particular focus on the nature of the transition process and the type of regime that has emerged, on questions of political economy, on regional politics and the Chechen problem, on relations with the republics of the former USSR and the wider world.				
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: 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 Co-ordinator:	Prof J Anderson			
Lecturer(s)/Tutor(s):	Prof J Anderson			

IR3111 Asian Security				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	4.00 pm Tue			
Establishing a security framework for Asia that will limit the risks of major war is one of the great challenges in contemporary international politics. This module will examine the evolution of security relations in Asia with special attention being given to South and East Asia and to the period since the end of the Cold War. It will consider the security cultures and policies of China, India and Japan, their relations with one another and with the United States, and the security 'architecture' that might emerge in Asia. It will also examine unresolved disputes over Taiwan and Kashmir, problems on the Korean peninsula, and the role of multilateral regimes and other international institutions.				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr P Lehr			
Lecturer(s)/Tutor(s):	Dr P Lehr			

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IR3113 Gender and Generation				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	3.00 pm Tue			
The incorporation of issues of gender into the prevailing international relations discourse changes the way in which international relations is thought about, and theorised. This module will examine the meaning of such change, and will also argue that, in a similar way, incorporating children into the established discourse may mean that traditional themes and constructs such as states, sovereignty, political identity, agency, power, representation, etc. are transformed. This module includes an examination of such issues as the use of child soldiers; women and warfare; childrens economic role; and political theory as it relates to the family.				
Programme module type:	Optional for International Relations and 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: 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 Co-ordinator:	Prof A Watson			
Lecturer(s)/Tutor(s):	Prof A Watson			

IR3301 Politics and State Formation in the Middle East (was IR3109)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	1.00 pm Mon			
This module examines the modern political history of the Middle East, concentrating on the period since 1945. It examines how the pre-modern historical heritage of the region, the impact of imperialism and the advance of modernisation have shaped contemporary politics. The module also examines contemporary political ideologies and movements, elites, the role of the military, authoritarian state structures, economic development policies, and the prospects of Islamization and democratisation. This is done through case studies mainly of Turkey, Iran, Saudi Arabia, Egypt, Syria and, to a lesser extent, other countries.				
Programme module type:	Optional for International Relations and 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Saouli			
Lecturer(s)/Tutor(s):	Dr A Saouli			

IR3302 Democracy and Revolution in North Africa			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6		
Planned timetable:	11.00 am Mon		
<p>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.</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 = 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 Co-ordinator:	Dr F Volpi		
Lecturer(s)/Tutor(s):	Dr F Volpi		

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IR4099 Honours Dissertation in International Relations				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Planned timetable:	3.00 pm - 5.00 pm Tue			
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: Nine research skills seminars of two hours to be held in Weeks 1,2,3,4,5,6,7, and 10 in Semester 1 and Week 2 in Semester 2. Five 1-hour individual consultation sessions with assigned supervisors. Compulsory attendance at eight one-hour tutorial sessions in semester 1. One one-hour information session in semester 2 of the junior honours year. Additional consultation hours with supervisor, tutor, and the Dissertation Coordinator are also available for dissertation students.			
	Scheduled learning: 68 hours		Guided independent study: 532 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Murer			

IR4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

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IR4795 Joint Dissertation (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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.</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.			
IR4601 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

IR4514 Global Public Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 & 2 (taught twice)
Academic year:	2015/6			
Planned timetable:	2.00 pm Mon (semester 1) & 2.00 pm Mon (semester 2)			
<p>This module examines the formulation of multilateral agreements to manage global policy problems in a variety of issue-areas such as environment, new technologies, and sustainable development. It will use a variety of IR and related social theories such as functionalism, regime theory and the common-heritage of mankind, to explain problems in constructing binding international agreements. Extended case studies may include climate change, the law of the sea and the 'digital divide'.</p>				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr R Jalkebro (S1) Dr Bower (S2)			
Lecturer(s)/Tutor(s):	Dr R Jalkebro (S1) Dr Bower (S2)			

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IR4516 The International Relations of Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Mon			
<p>This module examines Sub-Saharan Africa's relations with and position in the global political economy. The module will aim to help understand the historical roots and contemporary impulses that help shape Africa's international relations. The module explores how Africa's nation-states and peoples interact with multilateral development banks, international institutions, aid organisations and other actors (including both "normal" external states and clandestine networks of accumulation). We will consider Africa's debt and its impact upon the continent's international relations, acknowledging that it is unsustainable but asking if total debt write-off is feasible or desirable. Why Africa's share in world trade is declining and the impact this has on the continent will also be discussed as will the role of trade restrictions and the WTO in shaping Africa's international relations. We will ask what is the logic of regional integration and can it work in Africa, whilst examining the stated goals of political unity and economic progress through the African Union. Is this just rhetoric or is there now hope for solid achievements on both political and economic fronts? We finish with an evaluation with the latest plan to put Africa on the global map: the New Partnership for Africa's Development (NEPAD).</p>				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Prof I C Taylor			
Lecturer(s)/Tutor(s):	Prof I C Taylor			

IR4518 Ethics and the Use of Force				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module will examine the ethics of war and violence. It will explore various ethical traditions that have framed war and violence over the centuries, and will then explore some specific topics. The goal of the module is to provide students with tools for critically evaluating violence and war at the global level.</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: 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 Co-ordinator:	Prof T Lang			
Lecturer(s)/Tutor(s):	Prof T Lang			

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IR4522 Critical Approaches to International Security				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	3.00 pm Thu			
This module will analyse the various challenges to the concept of international security since the end of the Cold War, facilitate critical thinking about the changing meaning of security as it relates to different modes of theoretical analysis, and critically analyse the re-emergence of an emphasis on security as the threat and use of force since 11 September 2001.				
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof K Fierke			
Lecturer(s)/Tutor(s):	Prof K Fierke			

IR4523 The Aftermath of the Wars: Liberal Dilemmas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am Tue			
This module will examine the aftermath of wars since about 1900 and ask what options have been open to policy makers in smoothing the transition to peace. To do so it will look at a series of such policy options in both historical depth and current reality. Most of these policy options start with an 'r': restitution, reparation, reconciliation, reconstruction, retribution etc. This module is organised around those 'r's. Each of these policy options has in itself a 'history' that is here explicitly linked to liberal thinking about war and hence to liberal views about how they should be ended.				
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: 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 Co-ordinator:	Prof A J Williams			
Lecturer(s)/Tutor(s):	Prof A J Williams			

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IR4530 Genocide				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	3.00 pm Mon			
This module provides students with a conceptual and historical overview of genocide from a broad interdisciplinary perspective. Drawing upon contributions from political science, international relations, history, philosophy, sociology, psychology and literature, the module examines a range of empirical case studies along with some of the historical and philosophical debates they have sparked. Topics to be addressed include definitions of genocide; the evolving international law of genocide; themes of memory, responsibility and denial; and mechanisms of justice and reconciliation.				
Programme module type:	Optional for International Relations and B.A. (Intl Hons) International Relations			
Anti-requisite(s):	IR3050			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 tutorial.			
	Scheduled learning: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr H Cameron			
Lecturer(s)/Tutor(s):	Dr H Cameron			

IR4535 Theories of Friendship, Solidarity and Peace				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am Wed			
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.				
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 Co-ordinator:	Dr G Slomp			
Lecturer(s)/Tutor(s):	Dr G Slomp			

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IR4536 Warmongers and Peacemakers: Religious Actors and Conflict				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Mon			
<p>This comparative module introduces students to the complex relationship between religion and violence by addressing the conflict and peacemaking capacities of religion and religious actors. Set in the context of theoretical approaches towards religion, politics and conflict; case studies will be examined from a wide range of geographical areas, faiths and conflict types. Conflicts with a religious element covered include those relating to political supremacy, occupation and resistance, nationalism, separation and intercommunal violence. The module also examines religious institutions and authoritarianism as well as the role of transnational religious actors regarding conflict and peace.</p>				
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr F McCallum			
Lecturer(s)/Tutor(s):	Dr F McCallum			

IR4538 Identities, Belonging and Others				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon Tue			
<p>The module explores the processes of collective identity formation and its role in conflict; students will analyse the processes by which individuals form group attachments and come to be recognised as belonging to a particular community. Yet these processes of demarcation also are performances of exclusion, establishing boundaries of those to be trusted and those who may be subject to violent repudiation. The module will explore conceptions of nationalism and ethnicity and how the constructions of each can lead to communal violence. Similarly students will examine modes of reproduction and transmission of class and gender identities, and how all of these fluid identities shift and realign while maintaining distinctions, designating who belongs and who is other.</p>				
Programme module type:	Optional for International Relations and 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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Murer			
Lecturer(s)/Tutor(s):	Dr J Murer			

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IR4540 The Changing Character of War				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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: 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

IR4542 Gender and Terrorism				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 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 Co-ordinator:	Dr C E Gentry			
Lecturer(s)/Tutor(s):	Dr C E Gentry			

IR4543 Activism and Resistance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm Thu			
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.				
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: 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 Co-ordinator:	Prof A Watson			
Lecturer(s)/Tutor(s):	Prof A Watson			

IR4544 Wars and Peace in the Caucasus				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Thu			
The Caucasus region has suffered some of the worst wars, terrorist attacks and violent state-led counter-insurgencies in recent history. This module examines the contending accounts of war, terrorism and instability, giving attention to such conflicts as Chechnya, Nagorno-Karabakh and those in Georgia, including the conventional war of 2008. The interests and efforts of regional and international actors in trying to secure the region will also be examined, as will thematic issues such as democratization and human rights promotion.				
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: 46 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Examination = 50%, Coursework = 50%,			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof R Fawn			
Lecturer(s)/Tutor(s):	Prof R Fawn			

International Relations - Honours Level - 2015/6 – January 2016

IR4545 Indian Foreign Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	12.00 Mon			
<p>This module is designed to provide an analysis of the emergence of India within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive understanding of the state's past, contemporary and future significance. After a historical overview, the module will evaluate key factors concerning how India conducts and formulates its foreign policy (from strategic and economic factors, to its regional and multilateral interactions). This analysis will then lead to a comprehensive evaluation of India's future challenges as an emergent Asian and global power in the 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: 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 Co-ordinator:	Dr C Ogden			
Lecturer(s)/Tutor(s):	Dr C Ogden			

IR4546 The Psychology of International Security				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Wed or 11.00 am - 1.00 pm Thu			
<p>This module will examine the role of psychological factors as they relate to international security. The field of psychology offers sophisticated and compelling accounts of the sources of human perception and behaviour. By applying psychological theories to the context of international security, we gain new insight into long-standing security issues, such as the security dilemma, terrorism, and the calculation of risks and benefits in decisions to go to war. Particular attention will be paid to perceptions and misperceptions, security policy-making, inter-group conflict and conflict-resolution, and the role of leaders' personalities in shaping their security preferences and behaviours.</p>				
Programme module type:	Optional for International Relations and 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: 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 Co-ordinator:	Dr R Beasley			
Lecturer(s)/Tutor(s):	Dr R Beasley			

International Relations - Honours Level - 2015/6 – January 2016

IR4547 Shadows in the Global Political Economy			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Planned timetable:	11.00 am Fri		
<p>This module turns our attention to some of the less pleasant consequences of globalisation, because the same features that encourage the international trade in legal goods and services at the same time encourage the trade in illicit and illegal goods and services. Estimates vary, highlighting the difficulty to measure the clandestine, but the global shadow economy or illicit sector is around 22% of global GDP. This module looks at the illicit/illegal practices of non-state actors in the international and the measures taken by the international community to reduce, counter, and eliminate those practices. It begins with a consideration of economic globalisation and the applicable global political economy theories. It will then cover a number of topics, which may include: money laundering, organised crime, terrorist finance, conflict resources, informal economies, and corruption.</p>			
Programme module type:	Optional for International Relations and 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 Co-ordinator:	Dr W Vlcek		
Lecturer(s)/Tutor(s):	Dr W Vlcek		

International Relations - Honours Level - 2015/6 – January 2016

IR4548 Force and Statecraft				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 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 Co-ordinator:	Dr K Harkness			
Lecturer(s)/Tutor(s):	Dr K Harkness			

IR4551 Cosmopolitanism and Global Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	1.00 pm - 3.00 pm Tue or 10.00 am - 12.00 noon Wed			
<p>There has been a resurgence of interest in cosmopolitanism in contemporary international political theory, based upon the premise that cosmopolitan politics and ethics offer an appropriate response to an increasingly connected and unequal world. This module will explore historical and contemporary theories of cosmopolitanism, as well as its ethical, political and cultural dimensions. We will consider arguments both for and against the notion of cosmopolitanism, and examine topical issues such as human rights, postcolonialism, democratization, sovereignty, war and peace, the environment, and humanitarian intervention.</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: 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 Co-ordinator:	Prof P Hayden			
Lecturer(s)/Tutor(s):	Prof P Hayden			

International Relations - Honours Level - 2015/6 – January 2016

IR4552 The Politics of the Environment				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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 Co-ordinator:	Dr A Brown			
Lecturer(s)/Tutor(s):	Dr A Brown			

IR4554 Global Aesthetics and Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<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 course 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: TBC			
	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: 2-hour Written Examination = 35%, Coursework = 65%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof S N Cummings			

International Relations - Honours Level - 2015/6 – January 2016

IR4555 Music, Politics and International Relations			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6		
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 11 weeks), 1 x 1-hour tutorial (x 9 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: 3-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Prof J Anderson		
Lecturer(s)/Tutor(s):	Prof J Anderson		

IR4558 Non-Western International Relations				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>Despite widespread interest in the politics of the non-Western world, the IR field remains trapped in established theoretical and substantive approaches that tend to reproduce predictable accounts of the international. There appears to be an obvious disjunction between world politics and the frames deployed to capture it. Non-Western perspectives, if and when they are invited to provide an alternative reading of world politics, are typically seen as mere addenda to mainstream accounts; they simply record the protestations of cultural difference. This module takes as its point of departure the suspicion that non-Western IR presents alternative theoretical mappings of the international that recognise both the silences in established accounts as well as appreciate the universal element in alternative perspectives, transcending cultural particularity. To that end, this module situates non-Western IR in an historical context to forge comprehension of the larger processes of change and transformation, especially against the backdrop of the decolonisation impulse. Equally salient in the transition is the shift in the trajectory of knowledge production and representation, one that allows a more globalised account of the formation of the world order. Non-Western IR on this view recognizes the inseparability of centres and peripheries, of wealth and deprivation, or domination and subordination, but also the durability of received designation. An alternative introduction to conventional readings of the international, the module offers an alternative genealogy to the post-Westphalian consensus shared by extant approaches of all hues. However, the purpose here is not merely to provide critique of hegemonic accounts but to critically probe the deeper structure of non-Western sensibility.</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 Co-ordinator:	Prof M K Pasha			
Lecturer(s)/Tutor(s):	Prof M K Pasha			

International Relations - Honours Level - 2015/6 – January 2016

IR4600 Ideologies and Social Movements in the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	12.00 noon Tue			
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.				
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 11 weeks) 2 office consultation hours (x 12 weeks)			
	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 Co-ordinator:	Dr J Gani			
Lecturer(s)/Tutor(s):	Dr J Gani			

IR4601 Political Order and Violence in the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Wed			
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: 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 Co-ordinator:	Dr A Saouli			
Lecturer(s)/Tutor(s):	Dr A Saouli			

International Relations - Honours Level - 2015/6 – January 2016

IR4604 Political Islam and International Relations (was IR4520)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Planned timetable:	11.00 am Tue		
<p>This module examines the causes, evolution and diffusion of political Islam in the core regions of the Muslim world and beyond in the modern period. It aims to describe the key features of this phenomenon, its influence on national and regional politics as well as on international relations. It describes the specificity of political Islam as a religious-based ideology and how it informs the raise of pro-Islamic movements across the Muslim world. It focuses on the relationship between Islamic movements and state, and between Islamic movements and civil society within the context of political liberalism and pluralism. The liberal and scriptural interpretations that dominate contemporary debates will be examined in relation to the local, national, regional and global context of contemporary international politics. Of particular relevance are the issues of the compatibility of politics and democracy, of political Islam and state power, of political Islam and liberal-democracy, and of the Western representation of political Islam as a security threat.</p>			
Programme module type:	Optional for International Relations, Middle East Studies and BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005 and IR2006	Anti-requisite(s):	IR4520
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 Co-ordinator:	Dr F Volpi		
Lecturer(s)/Tutor(s):	Dr F Volpi		

International Relations - Honours Level - 2015/6 – January 2016

IR4605 The Arab - Israeli Conflict (was IR4533)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Planned timetable:	1.00 pm Tue		
<p>This module is an essential primer for all students wishing to explore the complexities of the Arab-Israeli conflict from its origins to its recent evolution in the 'post' colonial era. Students will gain significant knowledge about the local, regional and international dimensions of the conflict with an emphasis on historical and legal analyses. A critical appreciation of intellectual debates will assist students in navigating their way through the themes of state formation, secular and religious ideologies, identity politics, human rights discourses and the role of the media in the construction of the conflict. Students should end the semester with a sound knowledge-base about the region's most enduring and intractable conflict.</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):	IR4533
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 Co-ordinator:	Dr J Gani		
Lecturer(s)/Tutor(s):	Dr J Gani		

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 properly qualified to enter the module.

Management (MN) Modules

MN3101 Corporate Finance and Control				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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 11 weeks) and 1 tutorial (x 9 weeks) and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 53 hours		Guided independent study: 147 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Nguyen			
Lecturer(s)/Tutor(s):	Dr L Nguyen			

Management - Honours Level - 2015/6 - August 2015

MN3102 Organisation Studies				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	4.00 pm - 6.00 pm			
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.				
Programme module type:	Compulsory for all Management degrees			
Pre-requisite(s):	MN2001 and MN2002			
Required for:	MN4102, MN4239			
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr G Greig			
Lecturer(s)/Tutor(s):	Dr G Greig, Dr P Roscoe			

MN3116 Financial Markets and Investments				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr X Chen			
Lecturer(s)/Tutor(s):	Dr X Chen			

MN3126 International Business				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module is intended to provide an introduction to the complexities and challenges of International Business. This is in preparation for more advanced Seminar and Dissertation work carried out at 4000 Level. It will build on pre-Honours work to address a number of detailed issues facing managers in multinationals, such as 1) internationalisation strategies, 2) country evaluation and selection, 3) the role and impact of government on internationalisation, 4) international markets and marketing, 5) international HRM, 6) the managerial control of multinationals, 7) Foreign Direct Investment and 8) International trade. It will thereby offer students the opportunity to analyse the implications of international business decisions at a range of levels, from (primarily) a strategic perspective.				
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Brown			
Lecturer(s)/Tutor(s):	Dr R Brown			

MN3201 Research Methods: 1				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Compulsory for Single Honours Management, Single Honours Management Science			
Pre-requisite(s):	Entry to a Single Honours Management or Management Science Degree			
Co-requisite(s):	MN3202	Required for:	MN4301	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 3 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 47 hours		Guided independent study: 153 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Prof H T O Davies			
Lecturer(s)/Tutor(s):	Prof H T O Davies			

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MN3202 Research Methods: 2				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Dr C Akinci			
Lecturer(s)/Tutor(s):	Team taught			

MN4211 International Marketing				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Khalik			
Lecturer(s)/Tutor(s):	Dr M Khalik			

MN4100 Contemporary Issues in Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 47 hours		Guided independent study: 153 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Prof J Bebbington			
Lecturer(s)/Tutor(s):	Team Taught			

MN4213 Human Resource Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S A Chillias			
Lecturer(s)/Tutor(s):	Dr S A Chillias			

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MN4214 Management of Change				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof S Nutley			
Lecturer(s)/Tutor(s):	Prof S Nutley			

MN4223 International Banking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof J Wilson			
Lecturer(s)/Tutor(s):	Prof J Wilson			

MN4227 Corporate Social Responsibility, Accountability and Reporting				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module provides an introduction to and analysis of corporate social responsibility and sustainability, the meaning, tensions and conflicts that social responsibility entails and the role that accountability can play in the discharge of responsibility in a democracy. The module will examine the theory and practice of social, environmental and sustainability reporting as a manifestation of social and environmental accountability and explore and assess current experiences with that reporting. The module will examine the practical and political constraints on the development of substantive social, environmental and sustainability reporting and explore different ways in which the discharge of social accountability might be achieved.				
Programme module type:	Optional for all Management degrees, Management Science. 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 11 weeks) and 1 tutorial (x 11 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Prof R Ferguson			
Lecturer(s)/Tutor(s):	Prof R Ferguson			

MN4236 Sociology of Finance				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr P J Roscoe			
Lecturer(s)/Tutor(s):	Dr P J Roscoe			

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MN4238 Sustainable Development and Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 53 hours		Guided independent study: 147 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Russell			
Lecturer(s)/Tutor(s):	Team taught			

MN4241 Knowledge Work: Practice and Context				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Dr G Greig			
Lecturer(s)/Tutor(s):	Dr G Greig; Dr C Akinci			

MN4242 Advertising and Marketing Communications				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 53 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Mr W Barlow			
Lecturer(s)/Tutor(s):	Mr W Barlow			

MN4243 Philanthropy and Philanthropreneurs: the business of doing good				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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 11 weeks) and 1 seminar (x 5 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 49 hours		Guided independent study: 151 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Jung			
Lecturer(s)/Tutor(s):	Dr T Jung			

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MN4244 Behavioural Decision Making				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
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.				
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 seminar (x 11 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Dr K Myrseth			
Lecturer(s)/Tutor(s):	Dr K Myrseth; Dr C Akinci			

MN4245 Leadership Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students on the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module provides students with the opportunity to critically examine current and classic theories of leadership, develop an approach to formative leadership development that can be transferred to organizational contexts, and develop a reflexive, theoretically informed approach to the development of their own leadership development strategies.				
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 11 weeks) 1 seminar (x 8 weeks), 1 practical class (x 6 weeks) and 3 optional consultative hours (x 11 weeks)			
	Scheduled learning: 69 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Dr S Romenska			
Lecturer(s)/Tutor(s):	Dr S Romenska			

MN4263 Entrepreneurship and Small Business Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 11 weeks)			
	Scheduled learning: 54 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Mr C Lovatt			
Lecturer(s)/Tutor(s):	Mr C Lovatt			

MN4266 Non Governmental Organisations (NGOs): Contexts, Contributions, and Challenges				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 47 hours		Guided independent study: 153 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Dr M Woolvin			
Lecturer(s)/Tutor(s):	Dr M Woolvin			

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MN4301 Management Project				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Dr G Greig			
Lecturer(s)/Tutor(s):	Team Taught			

MN4310 Scenario Thinking				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 54 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

MN4311 Dynamic Strategic Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	4.00 pm - 6.00 pm.			
<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: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr P Keenan			
Lecturer(s)/Tutor(s):	Dr P Keenan			

School of Mathematics & Statistics

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.

Mathematics (MT) modules

MT3501 Linear Mathematics 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr J J McDermott		
Lecturer(s)/Tutor(s):	Dr J J McDermott		

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MT3502 Real Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof K Falconer			
Lecturer(s)/Tutor(s):	Prof K Falconer			

MT3503 Complex Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
This module aims to introduce students to analytic function theory and applications. The topics covered include: analytic functions; Cauchy-Riemann equations; harmonic functions; multivalued functions and the cut plane; singularities; Cauchy's theorem; Laurent series; evaluation of contour integrals; fundamental theorem of algebra; Argument Principle; Rouche's Theorem.				
Programme module type:	Compulsory for 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: 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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J N Reinaud			
Lecturer(s)/Tutor(s):	Dr J N Reinaud			

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MT3504 Differential Equations				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):		
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R K Scott			
Lecturer(s)/Tutor(s):	Dr R K Scott			

MT3505 Algebra: Rings and Fields				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C M Roney-Dougal			
Lecturer(s)/Tutor(s):	Dr C M Roney-Dougal			

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MT3506 Techniques of Applied Mathematics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr R K Scott		
Lecturer(s)/Tutor(s):	Dr R K Scott		

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MT3507 Mathematical Statistics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am Mon (odd weeks), Wed & Fri		
<p>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).</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, 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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Prof S T Buckland		
Lecturer(s)/Tutor(s):	Prof S T Buckland		

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MT3508 Applied Statistics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Prof D L Borchers		
Lecturer(s)/Tutor(s):	Prof D L Borchers		

MT3802 Numerical Analysis			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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, numerical integration, solution of systems of linear equations by elimination and by iterative methods.</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 = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%		
Re-Assessment:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr A P Naughton		
Lecturer(s)/Tutor(s):	Dr A P Naughton		

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MT3832 Mathematical Programming				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
The aim of this module is to introduce students to the formulation and solution of various linear programming problems. The subject matter will be illustrated by applying the methods of solution to real examples. The syllabus includes: formulation of linear problems; solution graphically and by simplex algorithm; sensitivity analysis; duality; transportation and transshipment; the assignment problem.				
Programme module type:	Optional for all programmes in the School Compulsory for all single and joint Honours BSc Management Science degree programmes			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr V Popov			
Lecturer(s)/Tutor(s):	Dr V Popov			

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MT4003 Groups				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof I Rivin			
Lecturer(s)/Tutor(s):	Prof I Rivin			

MT4004 Real and Abstract Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 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):	MT3502	Required for:	MT4526, MT5825, MT5830	
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof L Olsen			
Lecturer(s)/Tutor(s):	Prof L Olsen			

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MT4005 Linear and Nonlinear Waves			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr A N Wright		
Lecturer(s)/Tutor(s):	Dr A N Wright		

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MT4111 Symbolic Computation			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2016/7		
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri		
<p>This module aims to enable students to use Maple as a tool in their other modules and to turn naturally to such a package when solving mathematical problems. The module aims to illustrate the following points: a symbolic computation package allows one to conduct mathematical experiments; a symbolic computation package allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The machine is stupid. Intelligence comes from the user. The user thinks, the user interprets, the computer calculates.</p>			
Programme module type:	<p>At least one of MT4111, MT4112 and MT5611 compulsory for 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-MT4113 compulsory for B.Sc/MA Mathematics and BSc/MA Statistics 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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr J D Mitchell		
Lecturer(s)/Tutor(s):	Dr J McDermott, Dr J D Mitchell, Dr C M Roney-Dougal		

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MT4112 Computing in Mathematics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6		
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-MT4113 compulsory for B.Sc/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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr D H Mackay		
Lecturer(s)/Tutor(s):	Dr V Archontis, Dr D H Mackay		

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MT4113 Computing in Statistics			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	12.00 noon Mon (odd weeks) and Wed, 12.00 noon - 2.00 pm Fri		
Students will gain experience with the software package SAS and the statistical language and environment R. Statistical computing exercises include (1) using and writing software to extract and organise electronically stored data, (2) simulating data with specific statistical properties, (3) investigating behaviour of statistical procedures under failure of statistical assumptions, (4) developing good programming practice through principles of modular programming.			
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 MT2004 or MT2508	Anti-requisite(s):	MT3607
Co-requisite(s):	pre- or co-requisite MT2004 or MT2508		
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: Written Examination = 40% (2 x 50-minute class tests), Coursework = 60%		
Re-Assessment:	1-hour 40 minute Written Examination = 40%, Coursework (4 new programming assignments) = 60%		
Module Co-ordinator:	Dr E Rexstad		
Lecturer(s)/Tutor(s):	Dr E Rexstad		

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MT4501 Topics in the History of Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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:	Coursework (new project) = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak, Dr C M Roney-Dougal, TBC			

MT4507 Classical Mechanics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr A N Wright			
Lecturer(s)/Tutor(s):	Dr A N Wright			

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MT4508 Dynamical Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof T Neukirch			
Lecturer(s)/Tutor(s):	Dr A P Naughton, Prof T Neukirch			

MT4509 Fluid Dynamics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Carr			
Lecturer(s)/Tutor(s):	Dr M Carr			

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MT4510 Solar Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof I De Moortel			
Lecturer(s)/Tutor(s):	Prof I De Moortel, Prof A W Hood			

MT4511 Asymptotic Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
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: 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:	2-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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MT4513 Fractal Geometry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof K J Falconer			
Lecturer(s)/Tutor(s):	Prof K J Falconer			

MT4514 Graph Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Pfeiffer			
Lecturer(s)/Tutor(s):	Dr M Pfeiffer			

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MT4515 Functional Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

MT4516 Finite Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C M Roney-Dougal			
Lecturer(s)/Tutor(s):	Dr C M Roney-Dougal, Prof I Rivin			

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MT4519 Number Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

MT4526 Topology				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Prof P J Cameron, Dr J D Mitchell			

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MT4527 Time Series Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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. Optional for all other programmes in the School. At least two from MT3706, MT4527, MT4528, MT4608 compulsory for BSc Management Science (single Honours).			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr V M Popov			
Lecturer(s)/Tutor(s):	Dr V M Popov			

MT4528 Markov Chains and Processes				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
This module provides an introduction to the theory of stochastic processes and to their use as models, including applications to population processes and queues. The syllabus includes the Markov property, 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:	Optional for all undergraduate programmes in the School of Mathematics & Statistics. At least two from MT3706, MT4527, MT4528, MT4608 compulsory for BSc Management Science (single Honours).			
Pre-requisite(s):	MT2004 or MT2504			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr V Popov			
Lecturer(s)/Tutor(s):	Dr V Popov			

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MT4530 Population Genetics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT4531 Bayesian Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 2.5 lectures (weeks 1 - 10) and 8 tutorials/practical classes over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Re-Assessment:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Thomas			
Lecturer(s)/Tutor(s):	Dr L Thomas			

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MT4537 Spatial Processes				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J B Illian			
Lecturer(s)/Tutor(s):	Dr J B Illian, Dr L Scott-Hayward			

MT4551 Financial Mathematics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
<p>Students are introduced to the application of mathematical models to financial instruments. The course will include an overview of financial markets and the terminology in common usage but the emphasis will be on the mathematical description of risk and return as a means of pricing contracts and options.</p>				
Programme module type:	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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr D H Mackay			
Lecturer(s)/Tutor(s):	Dr D H Mackay			

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MT4552 Mathematical Biology I				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	Take-Home Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

MT4599 Project in Mathematics / Statistics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6			
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:	Resubmission of project = 100%			
Module Co-ordinator:	Prof C E Parnell			

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MT4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

MT4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

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MT4606 Statistical Inference			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri		
<p>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.</p>			
Programme module type:	<p>30 credits in two of MT4003, MT4004, MT4509, MT4510, MT4606 compulsory for Mathematics - Single Honours (5-year) M.Math. and Single Honours M.Math. (Fast Track) Between 60 and 70 credits from MT3501 and MT3606 and (MT4606 or MT5701) and (MT4607 or MT5753) compulsory for Statistics - Single Honours B.Sc. or M.A. who entered Honours in 2014/5 or earlier Between 75 and 85 credits: MT3501 and MT3507 and MT3508 and (MT4606 or MT5701) and (MT4607 or MT5753) compulsory for Statistics - Single Honours B.Sc. or M.A. who enter Honours in 2015/6 or later Between 30 and 40 credits in two of: MT3706, MT4528, (MT4531 or MT5831), (MT4606 or MT5701), (MT4607 or MT5753), MT4608, MT4609 compulsory for Statistics - Joint Honours B.Sc. or M.A. who entered Honours in 2014/5 or earlier Between 15 and 20 credits from MT4531 or MT4606 or MT5831 or MT5701 compulsory for Statistics - Joint Honours B.Sc. or M.A. who enter Honours in 2015/6 or later Optional for all other undergraduate programmes in the School.</p>		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr I B J Goudie		
Lecturer(s)/Tutor(s):	Dr I B J Goudie		

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MT4607 Generalised Linear Models and Data Analysis			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2016/7		
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		
Required for:	MT5757	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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr R Langrock		
Lecturer(s)/Tutor(s):	Dr R Langrock		

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MT4608 Sampling Theory			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2016/7		
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. Optional for all undergraduate other programmes in the School. At least two from MT3706, MT4527, MT4528, MT4608 are compulsory for BSc Management Science (single Honours).</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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr J B Illian		
Lecturer(s)/Tutor(s):	Dr J B Illian, Dr V M Popov		

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MT4609 Multivariate Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT4614 Design of Experiments				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof R A Bailey			
Lecturer(s)/Tutor(s):	Prof R A Bailey			

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MT5611 Advanced Symbolic Computation			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2016/7		
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri		
<p>This module aims to enable students to use Maple as a tool in their other modules and to turn naturally to such a package when solving mathematical problems. The module aims to illustrate the following points: a symbolic computation package allows one to conduct mathematical experiments; a symbolic computation package allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The machine is stupid. Intelligence comes from the user. The user thinks, the user interprets, the computer calculates. Students will undertake a more substantial project than that required for MT4111.</p>			
Programme module type:	<p>At least one of MT4111, MT4112 and MT5611 compulsory for 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 unless you are on a taught postgraduate programme	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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr J D Mitchell		
Lecturer(s)/Tutor(s):	Dr J McDermott, Dr J D Mitchell, Dr C M Roney-Dougal		

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MT5701 Advanced Statistical Inference				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
This module consists of MT4606 with the addition of directed reading on more advanced aspects of the subject and a requirement to write a review essay on an aspect of the subject. The syllabus includes: comparison of point estimators; the Rao-Blackwell Theorem; distribution theory; Fisher information and the Cramer-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets.				
Programme module type:	MT5701 or MT5831 is compulsory for MMath Statistics Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	(MT3507 or MT3606) and any MT4000-level module, unless you are on a taught postgraduate programme	Anti-requisite(s):	MT4606	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr I B J Goudie			
Lecturer(s)/Tutor(s):	Dr I B J Goudie			

MT5751 Estimating Animal Abundance				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2016/7			
Planned timetable:	12.00 noon Mon (odd), Wed and Fri			
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.				
Programme module type:	At least two of MT5751, MT5752, MT5757, MT5758 and ID5059 compulsory for MMath Statistics. 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 all other undergraduate programmes in the School.			
Pre-requisite(s):	(MT3507 or MT3508 or MT3606) and any MT4000-level module, unless you are on a taught postgraduate programme			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof D L Borchers			
Lecturer(s)/Tutor(s):	Prof D L Borchers			

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MT5753 Statistical Modelling			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	2.00 pm		
<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:	Also part of MMath programme Compulsory for MMath Statistics		
Pre-requisite(s):	at least one MT4000-level module	Anti-requisite(s):	MT4607
Required for:	MT5755, MT5757		
Learning and teaching methods and delivery:	Weekly contact: 6 hours lectures, 1.5 hours tutorials and 6 hours practicals (x 4 weeks).		
	Scheduled learning: 54 hours	Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr M L MacKenzie		
Lecturer(s)/Tutor(s):	Dr M L MacKenzie, Dr L Scott-Hayward		

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MT5757 Advanced Data Analysis			
SCOTCAT Credits:	20	SCQF Level 11	Semester: 2
Academic year:	2015/6 & 2016/7		
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, 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):	MT4607 or MT5753, unless you are on a taught postgraduate programme		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr M L MacKenzie		
Lecturer(s)/Tutor(s):	Dr M L MacKenzie, Dr J B Illian		

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MT5758 Applied Multivariate Analysis			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 2
Academic year:	2015/6 & 2016/7		
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:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr V Popov		
Lecturer(s)/Tutor(s):	Dr V Popov		

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MT5802 Advanced Analytical Techniques				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
This module introduces students to some further important applied analytic techniques such as Variational Calculus, Integral equations and transforms, and the theory of Steepest Descent.				
Programme module type:	At least three from MT5802, MT5806, MT5809, MT5810, MT5852 and MT5990 compulsory for MMath Applied 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 all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3503, unless you are on a taught postgraduate programme.			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C V Tran			
Lecturer(s)/Tutor(s):	Dr C V Tran			

MT5806 Advanced Computational Techniques				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu			
This module introduces students to some of the ideas, techniques and constraints that underpin modern approaches to the numerical modeling of physical processes that may be described by partial differential equations. Students will gain expertise in implementing standard methods and will submit a short dissertation together with a portfolio of computational work.				
Programme module type:	At least three from MT5802, MT5806, MT5809, MT5810, MT5852 and MT5990 compulsory for MMath Applied Mathematics. At least 60 credits from MT5751 - MT5753, MT5757, MT5758, MT5802, MT5806, MT5809, MT5810, MT5821, MT5823 - MT5830, MT5836 and MT5990 compulsory for MMath Mathematics. Optional for all other undergraduate programmes in the School.			
Pre-requisite(s):	MT3802 and MT4112, unless you are on a taught postgraduate programme.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (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:	Resubmission of projects = 100%			
Module Co-ordinator:	Dr S J Brooks			
Lecturer(s)/Tutor(s):	Dr S J Brooks			

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MT5809 Advanced Fluid Dynamics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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. 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 all other undergraduate programmes in the School.</p>			
Pre-requisite(s):	MT4509, unless you are on a taught postgraduate programme			
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%</p>			
	<p>As used by St Andrews: 2.5-hour Written Examination = 100%</p>			
Re-Assessment:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof D G Dritschel			
Lecturer(s)/Tutor(s):	Prof D G Dritschel			

MT5810 Advanced Solar Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu			
<p>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.</p>				
Programme module type:	<p>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.</p>			
Pre-requisite(s):	MT4510, unless you are on a taught postgraduate programme.			
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:	<p>As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%</p>			
	<p>As used by St Andrews: 2.5-hour Written Examination = 100%</p>			
Re-Assessment:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof C E Parnell			
Lecturer(s)/Tutor(s):	Prof C E Parnell			

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MT5812 Advanced Financial Mathematics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm Tue and Fri			
<p>This module builds on the theory that has been taught in MT4551 by introducing further analytical and practical techniques that are used in the valuation and risk-management of all the mainstream vanilla and exotic derivatives in the Equity, Foreign Exchange, Fixed Income and Credit Markets. The focus will be on both understanding the theory as well as how it is applied in the real world environment of a derivatives trading desk. By means of lectures and practical assignments, students will also be introduced to Excel and the Visual Basic Programming language (as a working knowledge of these will be invaluable to anyone seeking a career in the areas of finance or business).</p>				
Programme module type:	Optional for all programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT4551, unless you are on a taught postgraduate programme.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr W R Campbell			
Lecturer(s)/Tutor(s):	Dr W R Campbell			

MT5821 Advanced Combinatorics				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Availability subject to confirmation			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
<p>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.</p>				
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):	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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof P J Cameron			
Lecturer(s)/Tutor(s):	Prof P J Cameron			

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MT5823 Semigroups				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2015/6			
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, 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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell			

MT5824 Topics in Groups				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C P Bleak			
Lecturer(s)/Tutor(s):	Dr C P Bleak			

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MT5825 Measure and Ergodic Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	10.00 am Mon (even weeks), Tue and Thu			
<p>This module introduces some of the powerful techniques and ideas of modern mathematical analysis that are important both in analysis in its own right and in its many applications in mathematics and science. The module will include topics such as: measure theory, the ergodic theorem, martingale theory. Analysis is one of the active research areas within the School, and the choice of topics will reflect current activity.</p>				
Programme module type:	<p>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.</p>			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof L Olsen			
Lecturer(s)/Tutor(s):	Prof L Olsen			

MT5830 Topics in Geometry and Analysis				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2016/7			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
<p>The module will present new developments in geometry and analysis that relate to research interests in St Andrews. Building on 4000-level modules in analysis, it will introduce students to advanced results in this beautiful and important area of mathematics. The choice of specific topics may vary from year to year but will be chosen from Geometric Measure Theory, Non-commutative Geometry, Fuchsian Groups, Harmonic Analysis, and Measurable Dynamics.</p>				
Programme module type:	<p>At least three from 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. Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.</p>			
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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Todd			
Lecturer(s)/Tutor(s):	Dr M Todd			

Mathematics & Statistics - Honours Level - 2015/6 - August 2015

MT5831 Advanced Bayesian Inference				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	MT3507 or MT3606	Anti-requisite(s):	MT4531	
Learning and teaching methods and delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 8 tutorials/practical classes over semester.			
	Scheduled learning: 33 hours		Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Thomas			
Lecturer(s)/Tutor(s):	Dr L Thomas			

MT5836 Galois Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Academic year:	2016/7			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
	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.			
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):	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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Huczynska			
Lecturer(s)/Tutor(s):	Dr S Huczynska, Dr C Roney-Dougal			

Mathematics & Statistics - Honours Level - 2015/6 - August 2015

MT5852 Mathematical Biology 2				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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:	Take-Home Examination = 100%			
Module Co-ordinator:	Prof M Chaplain			
Lecturer(s)/Tutor(s):	Prof M Chaplain			

MT5990 Independent Study Module				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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.			
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:	Resubmission of coursework = 100%			
Module Co-ordinator:	Dr M L Mackenzie			

Mathematics & Statistics - Honours Level - 2015/6 - August 2015

MT5991 Professional Skills for Mathematical Scientists				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Exceptionally available 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:	Resubmission of coursework = 100%			
Module Co-ordinator:	Dr J D Mitchell			

MT5999 Advanced Project in Mathematics / Statistics				
SCOTCAT Credits:	40	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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:	Resubmission of project = 100%			
Module Co-ordinator:	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:	2015/6 & 2016/7		
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. MD3001 also provides system contextualised learning in the vertical themes of microbiology, 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: 10 Lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning		
	Scheduled learning: 304 hours	Guided independent study: 296 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examination totaling 25% of the module grade.		
Re-Assessment:	2 x 1.5-hour Written Examinations = 100%		
Module Co-ordinator:	Dr W Dhaliwal and Dr M Andrews		

Medicine - Honours Level - 2015/6 - August 2015

MD3002 Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 the 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: 10 Lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning.			
	Scheduled learning: 258 hours		Guided independent study: 342 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Attainment of competence in clinical skills appropriate 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.			
Re-Assessment:	2 x 1.5-hour Written Examinations = 100%			
Module Co-ordinator:	Dr A Laidlaw			

MD4001 Medicine: Honours 3 (Central Nervous System and Endocrine System)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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:	Weekly contact: 10 Lectures and 6 hours of seminars/tutorials/practicals each week Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning.			
	Scheduled learning: 304 hours		Guided independent study: 296 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examination totaling 25% of the module grade.			
Re-Assessment:	2 x 1.5-hour Written Examinations = 100%			
Module Co-ordinator:	Dr R Davies, Dr P Reynolds			

MD4002 Medicine: Honours 4 (Student-selected component)				
SCOTCAT Credits:	40	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.			
Planned timetable:	To be arranged.			
<p>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.</p>				
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:	re-assessment work (dissertation and oral presentation) may be done over the summer months and submitted at the resit diet in August.			
Module Co-ordinator:	Prof L S Kent, Dr J Tello			

Medicine - Honours Level - 2015/6 - August 2015

MD4003 Medicine: Honours 5 (Applied Medical Science)			
SCOTCAT Credits:	20	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
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 and fluid management. 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 cycles over the semester.		
	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:	1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)		
Module Co-ordinator:	Dr P Bjelogrljic, Dr E Sinclair		

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:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR3201	
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials and 1 surgery hour			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr F Caiani			
Lecturer(s)/Tutor(s):	Dr F Caiani			

AR3402 Media Arabic 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR3201	
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr F Caiani			
Lecturer(s)/Tutor(s):	Dr F Caiani, Dr O Elmaz			

Modern Languages - Honours Level - 2015/6 - January 2016

AR3421 Arabic Short Stories 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR3206	
Co-requisite(s):	AR3401			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR3422 Arabic Short Stories 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR3206	
Co-requisite(s):	AR3402			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR3461 Key Texts in Classical Arabic Literature and Culture 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR3250	
Co-requisite(s):	AR3401			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Elmaz			
Lecturer(s)/Tutor(s):	Dr O Elmaz			

AR3462 Key Texts in Classical Arabic Literature and Culture 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR3250	
Co-requisite(s):	AR3402			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Elmaz			
Lecturer(s)/Tutor(s):	Dr O Elmaz			

Modern Languages - Honours Level - 2015/6 - January 2016

AR4401 Advanced Arabic 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	3.00 or 4.00 pm Mon, 3.00 or 4.00 pm Thu			
This module will build upon the skills gained in the third year modules in Arabic. Emphasis will be placed on Arabic grammar, translation into and out of Arabic and free composition in Arabic. Students will also give oral presentations in Arabic. A variety of modern and contemporary materials representing different facets of Arab culture will be used to broaden students' knowledge of the language.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	AR2001, AR2002, AR3401, AR3402 or study abroad	Anti-requisite(s):	AR4205	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical (Oral Presentation) = 10%, Coursework = 30%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham, Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse			

AR4402 Advanced Arabic 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	3.00 pm or 4.00 pm Mon, 3.00 pm or 4.00 pm Thu			
This module will build upon the skills gained in AR4401. Emphasis will be placed on Arabic grammar, translation into and out of Arabic and free composition in Arabic. Students will also give oral presentations in Arabic. A variety of modern and contemporary materials representing different facets of Arab culture will be used to broaden students' knowledge of the language.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical (Oral Presentation) = 10%, Coursework = 30%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham, Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse			

Modern Languages - Honours Level - 2015/6 - January 2016

AR4421 Exile and Identity				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	4.00 pm Tue, 2.00 pm Thu			
This module will study linguistic, literary and cultural aspects of recent Arabic fiction, with readings from short stories mainly written by men and women writers from the Gulf and North Africa. The emphasis will be on the treatment of exile and identity within fiction mainly from the cultural margins of the Arab world, with secondary readings in English and class discussion.				
Programme module type:	Optional for Arabic			
Pre-requisite(s):	AR2001, AR2002, AR3401 or Study Abroad, AR3402 or Study Abroad	Anti-requisite(s):	AR4232	
Co-requisite(s):	AR4401			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour .			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

AR4422 Novellas				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR4235	
Co-requisite(s):	AR4402			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms C Cobham			
Lecturer(s)/Tutor(s):	Ms C Cobham			

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AR4461 Classical Arabic Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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	Anti-requisite(s):	AR4251	
Co-requisite(s):	AR4401			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Elmaz			
Lecturer(s)/Tutor(s):	Dr O Elmaz			

AR4462 Classical Arabic Prose				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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, AR4401	Anti-requisite(s):	AR4251	
Co-requisite(s):	AR4402			
Learning and teaching methods and delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Elmaz			
Lecturer(s)/Tutor(s):	Dr O Elmaz			

AR4999 Dissertation in Arabic Studies			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Ms C Cobham		
Lecturer(s)/Tutor(s):	As appropriate		

Comparative Literature (CO) modules

CO3001 Issues in Comparative Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr E Finer			
Lecturer(s)/Tutor(s):	Team taught			

CO3002 Found in Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002, CO3001			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Take Home Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr B Dralyuk			
Lecturer(s)/Tutor(s):	Team taught			

CO3020 Cultural Memory and Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
<p>This module introduces students to theories and examples of the creation of cultural memory in literature. Concepts such as communicative and collective memory will be discussed using three case studies, each exploring a particular ethnic, national or political cultural memory traced through literary and filmic texts as well as archival material and lieux de mémoire. Students will develop skills acquired during the first two years of Comparative Literature by applying a critical, analytical approach to these sources, encouraging them to recognize and interpret shifts, fault lines and conflicts within cultural memory from a trans-national perspective.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr E Spiers			
Lecturer(s)/Tutor(s):	Team taught			

CO3021 Crossing the Mediterranean				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged			
<p>The Mediterranean is often seen as a space which separates the cultures of the three continents which frame it but it is also regarded as a space of rich cultural exchange. This module explores a range of literary and film texts which foreground both the conflictual aspects of the divide, and the sense that the multicultural space of the Mediterranean offers a prism through which to understand the cultural diversity brought about by global mobility. All of the texts studied call into question familiar ideas about national cultures and belonging. The module looks at how culture crosses borders and how it is changed in the process. It looks at the effects of conflict and encounter on personal and cultural identities in transition.</p>				
Programme module type:	Optional for Comparative Literature			
Pre-requisite(s):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written coursework = 100%			
Module Co-ordinator:	Prof D Duncan			
Lecturer(s)/Tutor(s):	Team taught			

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CO4002 The Literary Canon				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	Compulsory for Comparative Literature			
Pre-requisite(s):	CO1001 or CO1002; CO2001 and CO2002; CO3001, CO3002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Spiers			
Lecturer(s)/Tutor(s):	Team taught			

CO4003 Issues in Cultural Studies				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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:	Compulsory for Comparative Literature			
Pre-requisite(s):	CO1001 or CO1002; CO2001 and CO2002; CO3001, CO3002			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Team taught			

CO4020 Literature and the Bible				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: lecture, seminar and tutorial work and a 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:	Written Coursework = 100%			
Module Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Team taught			

CO4021 Autobiography and the Visual Arts				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E Hugueny-Léger			
Lecturer(s)/Tutor(s):	Dr E Hugueny-Léger, Dr R Fernandez, Dr L Goddard			

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CO4022 Illness and Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr E Bond			
Lecturer(s)/Tutor(s):	Team taught			

CO4024 Performing Early-Modern Sexualities				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr E Herdman			
Lecturer(s)/Tutor(s):	Team taught			

CO4026 Classicism in European Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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):	CO1001 or CO1002; CO2001 and CO2002			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr M White			
Lecturer(s)/Tutor(s):	Dr M White, Dr M Ganofsky, Dr C Rossignoli			

CO4027 Folk and Fairy Tales				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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: 1.5 - 2-hour seminars weekly and 2 hours of film/video viewing over the semester.			
	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:	Written Coursework = 100%			
Module Co-ordinator:	Dr V Turner			
Lecturer(s)/Tutor(s):	Dr E Hugueny-Léger, Dr K Jones, Dr V Turner, Dr J Carson, Dr M Whilte, Dr O Elmaz, Dr C O'Leary			

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CO4098 Short Dissertation in Comparative Literature			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1 or 2
Academic year:	2015/6 & 2016/7		
Availability restrictions:			
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):	CO1001 or CO1002; CO2001 and CO2002; CO3001	Anti-requisite(s):	a 30-credit dissertation in another subject
Learning and teaching methods and delivery:	Weekly contact: 3 seminars 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 Co-ordinator:	Dr E Finer		

French (FR) modules

FR3001 French Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 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 Co-ordinator:	Dr J Prest			

FR3002 French Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Dr J Prest			

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FR3025 From the Sublime to the Ridiculous: Nineteenth-Century French Theatre				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
This module will investigate the development of theatre in nineteenth-century France through the study of important texts by major authors, taking in the most important trends of the genre's development: Romantic period, historical drama, farce, realism and symbolism. The plays will be studied within the socio-historical context of nineteenth-century France, as well as aesthetic objects in their own right.				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Evans			
Lecturer(s)/Tutor(s):	Dr D Evans and Dr J Carson			

FR3030 'Tartuffe' in Context, in Performance and in Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
Molière's Tartuffe was the most controversial play in the history of French drama. As recent Islamic productions of the play have demonstrated, it continues to speak to a twenty-first century audience in ways that both overlap with and are distinct from its early history. The play will be studied here from a number of angles, first as a piece of drama in its own right and then as a source of controversy in the politico-religious context of the early reign of Louis XIV. We shall then examine a selection of modern productions and English translations of the play in order to develop an understanding of theatre in performance and of the techniques of translation more broadly.				
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 or 2 seminars a week and 1 surgery hour, occasional film/video viewing			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Prest			
Lecturer(s)/Tutor(s):	Dr J Prest			

FR3076 Writing the Nineteenth Century 1: French Literature, History and Politics 1848 - 1871				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module explores the relationship between literature, politics and society during a crucial period of modern French history, from the Second Republic to the Paris Commune of 1871. Students will read literary texts by three major authors of the period. Discussion and analysis of these texts will allow us to consider issues such as urbanisation, women's place and aspirations, war and insurrection and the poetics of visionary idealism. Students will thus achieve an informed understanding of essential elements in the cultural and political foundations of contemporary France.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Anti-requisite(s):	FR3023			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D E Evans			
Lecturer(s)/Tutor(s):	Dr D Evans and Dr G Bowd			

FR3101 French Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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. Formal learning and assessment will be through:</p> <ul style="list-style-type: none"> (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. (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. 				
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.			
	Weekly contact: By correspondence throughout the year.			
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 Co-ordinator:	Dr V Turner			

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FR4103 Translation Methodology 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Evans			

FR4104 Translation Methodology 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D E Evans			

FR4105 Communication Skills in French 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
The module aims to develop communicative skills, both written and spoken. It follows a text- and video-based method designed by the department which enables students to present ideas and opinions clearly and persuasively, in appropriate registers of French.				
Programme module type:	Compulsory for all degrees involving French			
Pre-requisite(s):	FR3002 if taken, otherwise FR3001 or Erasmus year/semester abroad.			
Required for:	FR4106			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Herdman			

FR4106 Communication Skills in French 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Building on FR4105, this module aims to further develop communicative skills, both written and spoken. Pursuing the text- and video-based method it enhances the ability of students to present ideas and opinions clearly and persuasively, in appropriate registers of French.				
Programme module type:	Compulsory for all degrees involving French			
Pre-requisite(s):	FR4105			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Herdman			

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FR4111 Discovering the Renaissance: Imitation, Interpretation and Imagination				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>The sixteenth century is a time of invention and discovery: it is a time of broadening horizons, both literally - following Columbus's discovery of the New World - and metaphorically, as the wide-scale dissemination of knowledge becomes possible through the new medium of print. Yet it is also a time of instability and conflict, marked by the "invention" of gunpowder and by the growing schism between Catholics and Protestants, culminating in the horrors of the French religious wars.</p> <p>This module introduces students to a range of French Renaissance writers - from the seminal to the quirky - and examines how they respond to these shifting perspectives, which offer exciting intellectual and imaginative possibilities while casting serious doubt on ancient sources of knowledge and belief. The radical shift in literary authority that ensues encapsulates the humanism, scepticism and questions of identity that define the Renaissance.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Herdman			
Lecturer(s)/Tutor(s):	Dr E Herdman			

FR4115 Representations of the Renaissance: Sixteenth-century France in Historical Novels and Films				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am Mon and 12.00 Thu, plus occasional film viewings at 5.00 pm Tue.			
<p>What does it mean to refer to the sixteenth century as the French Renaissance? How has this conception – with its connotations of classical revival, of intellectual expansion and of individual identity – come about? How – and why – has this peculiarly privileged era been represented and reflected in literature and film over the ensuing centuries? And are such representations a fair reflection of this culturally rich but socially devastating period in France's history?</p> <p>This module seeks to answer some of these questions by comparing the cultural history of sixteenth-century France with its representation in historical novels and films from the seventeenth century to the present day. It allows students to compare original source material with literary representations and adaptations into film and also to reflect on what the reception history of the Renaissance might teach us as much about later periods as about sixteenth-century France itself.</p>				
Programme module type:	Optional for all M.A. degrees involving French			
Pre-requisite(s):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: Weekly seminars and fortnightly lectures and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Herdman			
Lecturer(s)/Tutor(s):	Dr E Herdman			

FR4116 Mediaeval Marvels: The Exotic, the East and the Other in Mediaeval French Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 45-minute seminar, 45-minute lecture and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr V Turner			
Lecturer(s)/Tutor(s):	Dr V Turner			

FR4125 The French Age of Enlightenment				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>From a focus on religion to a study of travels through an enquiry of happiness, the thematic approach adopted in this module aims to reveal the exciting and formidably ambitious nature of the Enlightenment. The weekly seminars will offer students the opportunity to develop their expertise in the Enlightenment through close analysis of canonical texts by philosophers such as Montesquieu, Voltaire, Diderot or Rousseau. Finally, to underline the fact that the Enlightenment embraced the wide cultural reality of the 18th century, literature and philosophy will be studied alongside history, and most lectures will also consider painting and music.</p>				
Programme module type:	Optional for all MA degrees involving French			
Pre-requisite(s):	FR2022 or FR2032		Anti-requisite(s):	FR4122
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 9 weeks), 1 seminar (x 8 weeks), 1 surgery hour (x 11 weeks)			
	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:	Coursework = 100%			
Module Co-ordinator:	Dr M Ganofsky			
Lecturer(s)/Tutor(s):	Dr M Ganofsky			

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FR4176 Recent Women's Writing in French: Theory and Practice				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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):	FR2022 or FR2032			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture, 1-hour seminar and 1 surgery hour, plus occasional film/video viewing.			
	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:	Coursework = 100%			
Module Co-ordinator:	Dr K Jones			
Lecturer(s)/Tutor(s):	Dr K Jones			

FR4180 Modern French Thought				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module will focus on the notion of community as it has been thought and expressed since the 1960s, at the intersection between sociology and philosophy, not only in theoretical texts but also in literature and film. What does it mean to be together or 'be with'? How may citizenship be defined and what does it mean to 'belong to' a group? Who is 'we'? Who can say 'we' and on behalf of whom? These questions are relevant to the reflection on national as opposed to cultural identity, especially in a context in which globalisation, through its relation to liberalism and democracy, raises the question of the creation of new communities and public spaces, including digital ones. Notions of migration(s), visibility and invisibility, laïcité, representation and participation will be central to this module. Authors on the programme will include Bourdieu, Cixous, Badinter, Nancy and Crépon. This module will be co-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: 1.5 hours and 1 surgery hour.			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Laügt			
Lecturer(s)/Tutor(s):	Dr E Laügt & Dr E Hugueny-Léger			

FR4182 Goods and Ads: Consumerism in Modern France				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>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.</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: 1.5-hour seminars and 1 surgery hour, plus occasional film/video viewing.			
	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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E S M Hugueny-Léger			

FR4198 Dissertation on a French Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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
	Weekly contact: 3 seminars and approximately 4 contact hours with the supervisor over the semester.			
Learning and teaching methods and delivery:	Scheduled learning: 7 hours		Guided independent study: 143 hours	
	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
Assessment pattern:	As used by St Andrews: Dissertation = 100%			
	Re-Assessment pattern: Resubmission of Dissertation			
Module Co-ordinator:	Dr E Laügt (S1) , Dr G Bowd (S2)			

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FR4199 Long Dissertation on a French Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr E Lugt (S1) , Dr G Bowd (S2)		

German (GM) modules

GM3005 German Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

GM3006 German Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am or 1.00 pm Tue and Fri			
This is a core language module for all students in the second semester of the first year of the Honours programme. It further develops written and spoken German language skills through work based on texts and videotapes in a range of registers and tasks including reading comprehension, discussion of issues raised by texts and videotapes, written responses, and review of aspects of grammar.				
Programme module type:	Compulsory for all degrees involving German			
Pre-requisite(s):	(Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010) and 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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

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GM3047 The Literature of Friedrich Nietzsche				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>There are few German writers whose name is as instantly recognizable, for good or ill, as Friedrich Nietzsche. Nietzsche's enduring appeal is due, in large measure, to his skill as a stylist and to the literariness of his work. In this module, students will analyse key works by Nietzsche from a literary point of view, treating stylistic features, recurrent themes and symbols, and structural patterns. Though a unique figure in many ways, neither Nietzsche nor his writing can be disentangled from their time; students will thus be led to consider correspondences and differences between Nietzsche and other nineteenth-century authors.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours 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 Co-ordinator:	Dr M White			
Lecturer(s)/Tutor(s):	Dr M White			

GM3073 The Mediaeval Short Story				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>The earliest German short stories, known as Mären, were funny tales about beautiful princesses, clever wives, stupid priests, wandering body parts, crossed-dressed knights, intrigue and mayhem. Using comedy, they explore some of the most problematic aspects of mediaeval culture, such as class, gender and religion. Long disregarded as popular culture, Mären have recently emerged as one of the most fascinating areas of mediaeval fiction. This module introduces students to the genre and some of its key topics.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr B Bildhauer			
Lecturer(s)/Tutor(s):	Dr B Bildhauer			

GM3075 Thomas Mann – Doktor Faustus				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010			
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 Co-ordinator:	Dr M White			

GM3080 Grammatical Rules and Lexical Exceptions in Modern German				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>Grammatical rules and lexical exceptions in modern German are considered against the background of Saussurean structuralism and in relation to language teaching. Saussure said that a language is a system, and languages do indeed have rules, in their grammar. But most rules of grammar have a long list of unexplained exceptions - why? The view taken in this module is that unexplained exceptions indicate that the grammarians have got the rule wrong. We look at two rules of modern German to see how a close examination of their unexplained exceptions can point to a new and better rule: the passive and non-passivisable transitive verbs; and tense formation and strong verbs.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.	Anti-requisite(s):	LI3001, ML3201	
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours 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 Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

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GM3081 Words and their Functions in Modern German				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

GM3088 Travel Writing in German since 1990				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>Although literary scholars declared the German-language travelogue to be a dead genre in 1989, travel writing enjoyed a remarkable resurgence in the two following decades. This revival appears to have been prompted by such factors as the radical reconfiguration of real (and imaginary) geographies in the wake of German Reunification. At the same time as this resurgence, there occurred a shift in cultural studies referred to as the "spatial turn". Theorists of culture were becoming interested in how constructing and negotiating space bears upon identity. In this module the insights of the spatial turn are applied to the reading of the newest German-language travel writing.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours 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 Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

GM3089 The German Gothic (1800 - 2000)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>The literary mode of the Gothic is well established in English Studies and there is growing interest in its internationality. Gothic fiction is seen as transgressive, especially in the way it crosses borders, but also in its challenge to standards of taste. This module will explore the development and international reception of the German Gothic from the 1790s heyday of the Schauerroman via the Gothic undercurrents in modernism to recent embodiments of the historical uncanny in post-Wall novels. What role does the Gothic play in processes of cultural transfer? How does it relate to literary canons, including the modernist canon? How do Gothic motifs and tropes shape early cinema? These and other questions will be addressed in an exploration of what has, since the Enlightenment, been a vital mode of European culture.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010			
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 Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

GM3091 The Nazi Past in German Cultural Memory				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>For almost 70 years German-language culture has wrestled with the burden of responsibility for the Second World War and the Holocaust and constantly questioned the capacity of literature, film and memorials to represent both the past and the conscience of the nation. This module will explore cultural memory of the Nazi past in Germany from 1945 to the present day, situating it in its philosophical and socio-political context. Students will analyse a wide variety of texts, debates and memorials, from novels to Youtube memes, asking what Vergangenheitsbewältigung (the struggle to come to terms with the past) was, is and will be in the future.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 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 Co-ordinator:	Dr C Lawson			
Lecturer(s)/Tutor(s):	Dr C Lawson			

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GM3101 German Integrated Year Abroad			
SCOTCAT Credits:	60	SCQF Level 9	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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. 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 a pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.	Anti-requisite(s):	GM3103 or Erasmus exchange.
Learning and teaching methods and delivery:	<p>This is a Study Abroad or External Placement module.</p> <p>Weekly contact: By correspondence throughout the year.</p>		
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%</p> <p>As used by St Andrews: Coursework = 100%</p>		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr A Cusack		

GM4007 Translation Methodology (German / English)			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2016/7		
Planned timetable:	To be arranged.		
<p>The aim of the module is to develop advanced skills in translating from German into English. The module encourages students to make a careful analysis of the linguistic characteristics of the source texts and to focus on recurrent problems of translation and the methods available for dealing with them. A range of text types including consumer-oriented (technical/commercial), journalistic and literary will be translated into the target language.</p>			
Programme module type:	Optional for Single and Joint Honours German		
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.		
Learning and teaching methods and delivery:	<p>Weekly contact: 2 language classes and 1 surgery hour.</p> <p>Scheduled learning: 33 hours Guided independent study: 117 hours</p>		
Assessment pattern:	<p>As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%</p> <p>As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%</p>		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr M White		
Lecturer(s)/Tutor(s):	Dr M White		

GM4046 Mediaeval Things				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>One of humanity's fundamental assumptions is that we self-determined humans are superior to inanimate objects. Mediaeval literature, however, is full of things that have powers over humans and act like them: they can speak, feel, move, have names and biographies: swords, relics, books, stones, coats and others. This module investigates the supernatural and natural powers of things in a range of texts, such as romances. We will also gain an overview of the recent 'thing theories' trying to understand the continued agency of objects from a variety of postmodern perspectives, and compare them to the mediaeval conceptions.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours 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 Co-ordinator:	Dr B Bildhauer			
Lecturer(s)/Tutor(s):	Dr B Bildhauer			

GM4069 German History 1949 to the Present				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>The module looks at key topics, periods and personalities of German society and politics from 1949 to the present day. It examines documents from the period in order to obtain a first-hand perspective on the language and society of the time, noting particularly the relationship between language and ideology. Topics to be covered are: the social, political and economic systems of the Federal Republic of Germany and the German Democratic Republic 1949-89; the Wende and the unification of Germany May 1989-October 1990; Germany since the Wende.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar.			
	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 Co-ordinator:	Dr C Beedham			
Lecturer(s)/Tutor(s):	Dr C Beedham			

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GM4070 Writing Nature: German Environmental Thought (1800 - 2000)			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6		
Planned timetable:	3.00 pm Thu.		
<p>Environmental thought gathered momentum in the final quarter of the twentieth century impelled by the experience of the Oil Crisis of the 1970s and the publication of the UN Human Environment Report The Limits of Growth (1972). Faced with mounting evidence of scarce resources and environmental damage, industrialized societies were compelled to confront their assumptions about growth and development. Nowhere was this confrontation more intense than in the two Germanies, where environmental ideas chimed with a tradition of cultural criticism that stretched back to Weimar Classicism and to the Naturphilosophie of the German Romantics. In this module we shall study the intellectual sources of German environmentalism, paying particular attention to the role of literature in mediating representations of nature and human agency. How significant are representations of nature for our relationship to the environment? What role does literature have to play in communicating and reflecting upon environmental ideas? What are environmental aesthetics and environmental history? This module seeks to provide answers to these and other questions vital to understanding the pivotal function of culture in promoting the 'necessary unity' of mind and nature (Bateson).</p>			
Programme module type:	Optional for Single and Joint Honours German		
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010		
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 Co-ordinator:	Dr A Cusack		
Lecturer(s)/Tutor(s):	Dr A Cusack		

GM4090 Contemporary Turkish-German Text and Film				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>One in five residents of Germany today have “a background of migration”. The phenomenon of twentieth-century migration to Germany is, however, only now in the process of being incorporated into the nation’s sense of self. Literature, film and theatre by Germany’s Turkish population has often been at the forefront of this shift. On this module students will analyse novels, short stories, plays and films by Turkish-German authors and directors published from 2000 on. We will read these works against the background of alterations to the citizenship law in the FRG, debates about the role of Islam post 9/11, and the relationship between memory and migration in the context of generational change. In the process, students will take a theoretically informed approach to analysing the varied aesthetics at work in these texts as well as to examining the ways in which socio-political context has affected this work’s development and reception.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Stewart			
Lecturer(s)/Tutor(s):	Dr E Stewart			

GM4094 The German Long Story (1880 - 1941)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>In the German nineteenth-century a class of prose fictions longer than short stories and shorter than novels enjoyed more critical and popular success than any other prose genre. Critics usually referred to these texts as novellas, harking back to an illustrious European tradition, and developing elaborate theories of what the novella was -- or, more importantly, of what it should be. This module will keep an open mind on the novella, putting the long stories themselves, rather than theories about them in the spotlight. What made these texts so popular, and so hotly debated by German critics? How does length influence the ways in which stories are composed, published, read and critiqued? In the module we will read six long stories from the period 1880 - 1941, attending to the ways in which these fictions tackle the themes of modernity.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Cusack			
Lecturer(s)/Tutor(s):	Dr A Cusack			

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GM4095 Rethinking German Realism 1845 - 1898				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>What happened in German literature between the death of Goethe and the appearance of Thomas Mann? What were the Germans doing when Flaubert and Tolstoy were writing? Often labelled inward-looking and provincial, German Realists were critical artists producing works of real beauty which reflect on the role of literature in the modern age. This module explores the aims and practices of German-speaking authors from 1845 - 1898. Students will examine theoretical writings alongside a range of representative literary texts (poetry, novels and novellas) from German and Austrian authors such as Stifter, Storm and Fontane. Students will develop their own definitions of Realism and reflect on the value of this movement for modern readers.</p>				
Programme module type:	Optional for Single and Joint Honours German			
Pre-requisite(s):	Pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.			
Learning and teaching methods and delivery:	Weekly contact: 1.5 hours 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 Co-ordinator:	Dr M White			
Lecturer(s)/Tutor(s):	Dr M White			

GM4098 Dissertation on German Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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 from Head of Department and a pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.		Anti-requisite(s):	GM4099 or a 30-credit dissertation in another subject
	Weekly contact: 3 seminars and 4 contact hours with the supervisor in total over the semester.			
Learning and teaching methods and delivery:	Scheduled learning: 7 hours		Guided independent study: 143 hours	
	Assessment pattern:			
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 Co-ordinator:	Dr C Beedham			

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GM4099 Long Dissertation on a German Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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 from Head of Department and a pass at 11 or better in GM2002, GM2004, GM2008 or GM2010.	Anti-requisite(s):	GM4098 or a dissertation in another subject
Learning and teaching methods and delivery:	Weekly contact: 3 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 Co-ordinator:	Dr C Beedham		

GM4105 German Language 3			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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: 33 hours	Guided independent study: 117 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 Co-ordinator:	Dr A Cusack		
Lecturer(s)/Tutor(s):	Team taught		

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GM4106 German Language 4			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am or 3.00 pm Mon; 11.00 am or 3.00 pm Thu		
This is a core language module for students in the second year of the Honours Programme. It is designed to develop advanced written and oral language skills based on task-based text production, summary and essay writing, while the oral part of the module will afford insight into communicative situations, strategies and approaches in a variety of contexts. Students will further develop their competence in recognising and analyzing communication techniques and in employing them effectively in different situations.			
Programme module type:	Compulsory for Single Honours German. Normally compulsory for all other degrees involving German		
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 seminars and 1 surgery hour.		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%		
	As used by St Andrews: 1-hour Essay in German Examination = 30%, Oral Examination = 30%, Coursework = 40%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr A Cusack		
Lecturer(s)/Tutor(s):	Team taught		

Italian (IT) modules

IT3001 Italian Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	IT2001 and a pass at 11 or better in IT2002			
Required for:	IT3002			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100% (25% Oral test, 75% Continuous assessment)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Malici			
Lecturer(s)/Tutor(s):	TBC			

IT3002 Italian Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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, IT2001 and a pass at 11 or better in IT2002			
Required for:	IT4003			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Malici			
Lecturer(s)/Tutor(s):	TBC			

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IT3014 The Language and Literature of Renaissance Italy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
This module provides an introduction to Italian literature and language of the Cinquecento, primarily through the works of Castiglione, Machiavelli and Ariosto. Extracts of other works will be read in relation to the <i>Questione della lingua</i> , and the development of literary models and courtly culture in Renaissance Italy. The literary, social and political background will be introduced through close study of the texts.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

IT3022 Nineteenth-Century Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
This module studies literature and thought of the nineteenth century, considered in its historical context. It focuses on works by Manzoni and Leopardi, and on topics such as the writer's relationship to society and the nature of literary representation.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 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:	Coursework = 100%			
Module Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

IT3035 Italian Detective Fiction				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2-hour 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 Co-ordinator:	Dr R P Wilson			
Lecturer(s)/Tutor(s):	Dr R P Wilson			

IT3036 Venice				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>Venice is an enigmatic city steeped in its own history, literature and culture. Its enigmas and myths originate in its particular geographical and historical locations between land and water, present and past, trade and literature. The main threads that will be explored are those of the past within the modern city and the encounter between the 'other' and 'the self' at the very centre of the city's architectural labyrinth. This module will offer students a comprehensive introduction to Venice by focusing on some major works by Italian writers, playwrights and filmmakers: Giacomo Casanova, Carlo Goldoni, Luchino Visconti, Italo Calvino and Pier Maria Pasinetti.</p>				
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- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

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IT3037 Contemporary Italian Woman Writers				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>Since the start of the twentieth century the role of women in Italy has undergone profound and rapid change. Women writers have reflected these changes in their fiction. This module explores the development of female identity, considers the ways in which women writers have responded to social, political and cultural changes, and examines common themes such as women's autobiography, the mother and daughter relationship, and the body, as treated by contemporary writers such as Anna Banti, Luisa Passerini, Clara Sereni, Elena Stancanelli.</p>				
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- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

IT3101 Italian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6			
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.			
	Weekly contact: By correspondence throughout the year.			
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 Co-ordinator:	Italian Study Abroad Coordinator			
Lecturer(s)/Tutor(s):	Italian Study Abroad Coordinator			

IT4003 Communication Skills 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 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% (30% Oral, 70% Continuous assessment)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

IT4004 Communication Skills 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 2.5-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	TBC			

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IT4010 Early Italian Lyric Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Likely to be available - confirmation closer to the time.			
Planned timetable:	To be arranged.			
Italian vernacular literature begins with lyric poetry, and early Italian poetry includes refined expressions of love, mystical spirituality, political critique, philosophical speculation, social satire and ribald humour. This module will examine lyric poetry in Italy from its origins to Dante, its roots, movements, forms, genres and tropes. We will study texts by poets such as Jacopone da Todi, Giacomo da Lentini, Guittone d'Arezzo, Bonagiunta da Lucca, Guido Guinizzelli, Guido Cavalcanti, Cino da Pistoia, Cecco Angiolieri, Rustico di Filippo, and Dante Alighieri.				
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- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Dr R Wilson			

IT4012 Dante Alighieri				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
It is no exaggeration to say that, for a variety of reasons, Dante Alighieri is the single most important figure in the history of Italian literature. This module completes the study of Dante by looking at his work before and after the Inferno. Before the Inferno, Dante was best known as the author of the Vita nuova. This is our first text for study. Less read and more difficult, according to Dante himself, the Paradiso concludes the Commedia and is our other text for study. To complete our examination of Dante's ideas, reference will also be made to the Convivio, the Monarchia, and the De vulgari eloquentia, as well as to the Purgatorio and Inferno.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2-hour 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 Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Dr R Wilson			

IT4013 Modern Italy through Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

IT4014 Female Literary Representations in the Italian Renaissance				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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 disenchanting reality of the courtesans. Key themes, such as the reinterpretation of mythological figures and the self-representation of female writers will be considered, as well as the work of writers such as Stampa, Fonte and Tullia d'Aragona.				
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- or 2-hour 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 Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

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IT4016 Twentieth-Century Italian Canonical and Anti-Canonical Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module looks at voices and texts that have created contrasting discourses within the Italian Poetic tradition during the 20th century. Poets that have been recognised and promptly accepted and included within the Italian Canon, and poets who have been excluded or censored by it due to formal or political reasons. The module will study poets such as Gabriele D'Annunzio, Giuseppe Ungaretti, Eugenio Montale and Umberto Saba as representatives of the Canon, and Aldo Palazzeschi and other Futurist poets, as well as Cesare Pavese, Pier Paolo Pasolini, Elio Pagliarini, and Nanni Belestrianin as voices of the Anti-Canon.</p>				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2- hour 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 Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

IT4024 Authority and Subversion in Renaissance Italy				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>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.</p>				
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- or 2-hour 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 Co-ordinator:	Dr C Rossignoli			
Lecturer(s)/Tutor(s):	Dr C Rossignoli			

IT4026 Fascism and Film				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
Mussolini famously declared that cinema was Fascism's most powerful weapon. His opponents often decried the propagandist quality of much of the film-making which took place under the regime. This module examines the Italian film industry between 1930 (the arrival of talkies in Italy) and 1943 (the fall of the regime). It will study the range of films produced under Fascism - comedies, melodrama, historical epics, documentary – to uncover the complexity of the links between Fascism and film.				
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- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Prof D Duncan			
Lecturer(s)/Tutor(s):	Prof D Duncan			

IT4027 Migration and Transculturality in New Italian Narratives				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
This module looks at texts which deal with migration, postcolonial and transcultural issues in a way of enriching, challenging and sometimes subverting national-bound ideas of cultural belonging and literary canons. This module will focus on narratives written by migrants and second generation authors (including Pap Khouma, Amara Lakhous, Ornella Vorpsi, Anilda Ibrahimi, Cristina Ali Farah and Igiaba Scego) and attempt to draw definitions of what is a new emerging genre of Italian literature.				
Programme module type:	Optional for all degrees involving Italian			
Pre-requisite(s):	IT2001 and a pass at 11 or better in IT2002			
Learning and teaching methods and delivery:	Weekly contact: 1- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E Bond			
Lecturer(s)/Tutor(s):	Dr E Bond			

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IT4028 The Twentieth-century Italian Novel				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>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 (crisis and dissolution in the novels of Luigi Pirandello and Italo Svevo), genre (the subversion of typical detective fiction and historical novel forms in Carlo Emilio Gadda and Elsa Morante), experimentation (the function of semiotics in Italo Calvino and Umberto Eco), gender (unconventional female and maternal stances in works by Oriana Fallaci and Goliarda Sapienza) and queer narratives (Umberto Saba, Pier Vittorio Tondelli).</p>				
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- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E Bond			
Lecturer(s)/Tutor(s):	Dr E Bond			

IT4029 Black Italians				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>The module looks at the relationship between Italian identity and whiteness. In the nineteenth century Italian race theorists argued for a close connection between Africa and the Italian South at a time when Italy's colonial adventure was about to start. The fascist publication <i>La difesa della razza</i> tried to protect the nation from contamination by other races but especially Jews. Recent migration to Italy from across the globe has provoked a range of challenges to the nature of Italian identity. Through the study of a range of literary and film texts from the 1860s to the present day, this module explores Italy's abiding concern with protecting its own whiteness from contamination.</p>				
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- or 2-hour seminar, film viewing and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Prof D Duncan			
Lecturer(s)/Tutor(s):	Prof D Duncan			

IT4097 20-Credit Dissertation in Italian				
SCOTCAT Credits:	20	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Head of Italian Department			

IT4098 Dissertation on an Italian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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:	Either IT4098 or IT4099 is compulsory for Single Honours 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 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 Co-ordinator:	Head of Italian Department			

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IT4099 Long Dissertation on an Italian Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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:	Either IT4098 or IT4099 is compulsory for Single Honours 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 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 Co-ordinator:	Head of Italian Department		

Modern Language (ML) modules

ML3101 Modern Languages Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 Work Placement module			
	Weekly contact: By correspondence.			
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%			

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ML4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 and '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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Persian (PR) modules

PR3001 Higher Intermediate Persian 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

PR3002 Higher Intermediate Persian 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

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PR3020 Key Texts in Modern Persian Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
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):	PR2001, PR2002			
Co-requisite(s):	PR3001			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

PR3021 Modern Iran through Cinema				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 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:	Coursework = 100%			
Module Co-ordinator:	Dr M Ghorbankarimi			
Lecturer(s)/Tutor(s):	Dr M Ghorbankarimi			

PR3022 Modernity and Iranian Drama				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
Students study five Iranian plays by Hassan Moqaddam, Bahram Beyzaie, Mohammad Yaqubi, Abbas Na'ibandiyani, 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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

PR4001 Advanced Persian 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

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PR4002 Advanced Persian 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

PR4020 Introduction to Classical Persian Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	PR2001, PR2002			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

PR4021 Female Identity in Contemporary Iran				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 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:	Coursework = 100%			
Module Co-ordinator:	Dr M Ghorbankarimi			
Lecturer(s)/Tutor(s):	Dr M Ghorbankarimi			

PR4098 Short Dissertation on a Persian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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 dissertation in another subject
Learning and teaching methods and delivery:	Weekly contact: 3 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 Co-ordinator:	Dr S Talajooy			
Lecturer(s)/Tutor(s):	Dr S Talajooy			

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PR4099 Long Dissertation on a Persian Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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):	PR4098 or any dissertation in another subject
Learning and teaching methods and delivery:	Weekly contact: 3 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 Co-ordinator:	Dr S Talajooy		
Lecturer(s)/Tutor(s):	Dr S Talajooy		

Russian (RU) modules

RU3001 Advanced Russian Language 1, Part 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module is mandatory for all Honours programmes containing a Russian element, except for programmes which include RU3101. It is designed to build on the level of language competence attained at the end of RU2002, RU2004 and RU2006. The module deals with grammar, the practical problems of translation from and into Russian, and introduces essay-writing in Russian. Oral tuition forms an important element of this module.				
Programme module type:	RU3001 or RU3005 is compulsory for all Russian degrees			
Pre-requisite(s):	Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.	Anti-requisite(s):	RU3005	
Required for:	RU3002			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Voronina			

RU3002 Advanced Russian Language 1, Part 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module is mandatory for all programmes containing a Russian element, except for programmes which include RU3101 or RU3102. It is designed to build on the language proficiency acquired in RU3001. It deals with grammar, the practical problems of translation, and essay-writing in Russian. Oral tuition forms an important element of the module.				
Programme module type:	RU3002 or RU3110 is compulsory for all Russian degrees unless a semester abroad is taken			
Pre-requisite(s):	RU3001	Anti-requisite(s):	RU3110	
Required for:	RU4101			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Voronina			

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RU3005 Advanced Russian Translation 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module is designed to build on the language proficiency attained through a period of study in Russia, either on RU3101 or ML3106 (in Russia). The module is based around the study of the finer points of Russian grammar, advanced translation from and into Russian, essay-writing in Russian, and small-group oral classes.				
Programme module type:	RU3001 or RU3005 is compulsory for all Russian degrees, except Russian and a second language and a third subject			
Pre-requisite(s):	RU3101, RU3106 or ML3106 in Russia.	Anti-requisite(s):	RU3001	
Required for:	RU3110			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Examination = 15%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Holt			

RU3022 The Nineteenth-Century Russian Novel				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
The module is designed to build on the knowledge of Russian literature acquired at sub-honours level, and in particular to examine the genre of the novel as it developed in the nineteenth century. The most important writers of the period are studied, including works by Gogol, Turgenev, Dostoevsky and Tolstoy. Historical and literary context is provided through consideration of the Slavophile / Westerniser debate and literary realism.				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (2 essays of 3000 words each)			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr C Whitehead			
Lecturer(s)/Tutor(s):	Dr C Whitehead			

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RU3026 Russian Modernist Fiction 1900 - 1940				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
The module is designed to build on the knowledge of modern Russian literature acquired at sub-honours level, concentrating on the counter-tradition of 'modernist' or experimental fiction from Symbolism to 'Oberiu' (The association of Real Art).				
Programme module type:	Optional for all degrees involving Russian			
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 = 20%, Coursework = 80%			
	As used by St Andrews: 15-minute Practical Oral Examination = 20%, Coursework = 80%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E Finer			
Lecturer(s)/Tutor(s):	Dr E Finer			

RU3030 A Special Russian Author of the Twentieth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
The module is designed to build on the knowledge of twentieth-century Russian literature acquired at sub-honours level, with particular concentration on one major author and examining especially those works that are not covered in sub-honours modules. Authors offered may include Mandel'shtam, Maiakovskii, Belyi, Solzhenitsyn, etc. Independent study will form a major element of the module.				
Programme module type:	Optional for all degrees involving Russian			
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 = 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 Co-ordinator:	Dr O Voronina			
Lecturer(s)/Tutor(s):	Dr O Voronina			

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RU3031 Russian 'Village Prose': 1953 - 1980				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module is designed to familiarise students with one of the most ideologically important bodies of literature published in the post-Stalin period, Soviet 'Village Prose'. Students will read works by a number of the most influential writers to have contributed to the genre, including Vasilii Belov, Aleksandr Solzhenitsyn, Vasilii Shukshin, and Valentin Rasputin, and engage with the para-literary criticism that emerged around the literary movement. In order to locate the texts within their social and cultural contexts the module will begin with two introductory sessions devoted to the question of urban and rural transformation and its literary treatment. Thereafter, the module will be taught through seminars that examine the themes of urban-rural opposition, village byt, nature, childhood and memory, a number of which will be student-led and introduced by student presentations. Many of the primary texts are available only in Russian and so discussion throughout the module will make reference to the Russian originals.</p>				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.	Anti-requisite(s):	RU4131	
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and occasional film/video viewing, and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr V Donovan			

RU3045 Russian Émigré Writing				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module focuses on the work of twentieth-century Russian authors of the so-called First (c. 1917-1922), Second (c. 1945), and Third Waves (1970-1991) of emigration, as well as work by Russian authors currently living abroad. It introduces students to some of the most significant and influential Russian writing of the past century, including the poetry of Marina Tsvetaeva and Joseph Brodsky and the prose of Ivan Bunin and Sergei Dovlatov. The module delves into the émigré literary milieus and institutions that evolved in Paris, Berlin, New York, Shanghai, Harbin, and other centres of emigration, and explores the degree to which the work and thought of Russian émigrés was shaped by their experiences in alien environments and their interactions with the literary cultures of their adoptive countries. Throughout the module students will consider the themes of exile, isolation, and assimilation, as well as the mechanisms of cultural preservation.</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 1 - 2 hour seminars (x 10 weeks) and 1 surgery hour (x 11 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr B Dralyuk			
Lecturer(s)/Tutor(s):	Dr B Dralyuk			

RU3046 Soviet Culture Under Stalin				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module aims to explore Soviet culture of the Stalin period, as manifested in both "official" and "unofficial" literature and film. The primary questions addressed in this course are: Can Stalinism be defined as a distinct "civilisation"? As a unique offshoot of the modernist enterprise? What was Socialist Realism? How were culture and terror related in the Stalinist period? How did writers and filmmakers in the Stalinist period imagine the Soviet Union? How does looking at cultural production enhance our understanding of the Stalinist period as a whole? What frameworks do cultural historians and literary scholars use to understand how culture functioned under Stalin? Readings and films by such authors as Andrei Platonov, Viktor Turin, Valentin Kataev, Lidiia Chukovskaia, Lidiia Ginzburg, and Aleksandr Medvedkin.</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: 1.5-hour seminars (x 10 weeks) 4-hour film viewing (x 4 weeks), 11 module surgery hours			
	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:	Coursework = 100%			
Module Co-ordinator:	Dr K Holt			
Lecturer(s)/Tutor(s):	Dr K Holt			

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RU3101 Russian Integrated Year Abroad			
SCOTCAT Credits:	60	SCQF Level 9	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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.</p> <p>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, Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.		
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.		
	Weekly contact: By correspondence throughout the year.		
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 Co-ordinator:	Dr N Bragina		
Lecturer(s)/Tutor(s):	Dr N Bragina		

Modern Languages - Honours Level - 2015/6 - January 2016

RU3102 Semester of Study in Russia				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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):	RU3001	Anti-requisite(s):	RU3101, RU3103	
Required for:	RU4101			
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module.			
	Weekly contact: up to 20 hours depending on agreement with Russian institution.			
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: 2-hour Written Examination = 25%, Dissertation in Russian = 50%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Bragina			

RU3110 Advanced Russian Translation 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2016/7			
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: 44 hours		Guided independent study: 106 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Holt			

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RU4101 Advanced Russian Language 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 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 Co-ordinator:	Dr B Dralyuk			

RU4102 Advanced Russian Oral Skills				
SCOTCAT Credits:	0	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	To be arranged.			
This module is the Oral part of RU4104 Communication Skills and is designed for students pursuing a triple-language or triple-subject degree whose modular programme does not allow them to opt for RU4104. It concentrates on developing the ability to communicate confidently in a broad range of possible situations in different areas of social life. The materials used include texts on a broad variety of topics on contemporary issues in different styles, including contemporary Russian literature, newspapers and magazine articles etc, as well as audiotapes and videotapes.				
Programme module type:	Optional for all degrees involving Russian			
Pre-requisite(s):	RU4101	Anti-requisite(s):	RU4104	
Learning and teaching methods and delivery:	Weekly contact: 1-hour oral class.			
	Scheduled learning: 11 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%			
	As used by St Andrews: 20-minute Practical Oral Examination = 100%			
Re-Assessment pattern:	none - class for zero credits			
Module Co-ordinator:	Dr B Dralyuk			

RU4104 Russian Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: 20-minute Oral Examination = 40%, Audio-visual Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr B Dralyuk			

RU4130 Issues in Russian Cultural Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
This module investigates contemporary Russian culture and society by examining its relationship with the Soviet past, the institutions of memory that mediate this relationship and the cultural practices that inform it. Students will be introduced to a number of critical ideas in memory scholarship, including 'sites of memory' [lieux de mémoire], institutions of memory, the falsification of memory, collective amnesia, aphasia, and others. While the module focuses on issues in Russian cultural memory, particularly memory of the post-Stalin and perestroika eras, the theory and criticism studied ranges more widely, including French and British theorists and practitioners. In seminars, students will engage with memoirs, diaries, oral testimony, films, documentaries, and online archives to explore the narrative and aesthetic consequences of the historicising impulse in contemporary Russian culture.				
Programme module type:	Optional for 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 occasional film/video viewing, and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr V Donovan			

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RU4131 Russian 'Village Prose': 1953 - 1980				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module is designed to familiarise students with one of the most ideologically important bodies of literature published in the post-Stalin period, Soviet 'Village Prose'. Students will read works by a number of the most influential writers to have contributed to the genre, including Vasilii Belov, Aleksandr Solzhenitsyn, Vasilii Shukshin, and Valentin Rasputin, and engage with the para-literary criticism that emerged around the literary movement. In order to locate the texts within their social and cultural contexts the module will begin with two introductory sessions devoted to the question of urban and rural transformation and its literary treatment. Thereafter, the module will be taught through seminars that examine the themes of urban-rural opposition, village byt, nature, childhood and memory, a number of which will be student-led and introduced by student presentations. Many of the primary texts are available only in Russian and so discussion throughout the module will make reference to the Russian originals.</p>				
Programme module type:	Optional for Russian			
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 occasional film/video viewing, and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr V Donovan			

RU4132 Contemporary Russian Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module surveys Russian-language prose and poetry written in Russia and abroad since the collapse of the Soviet Union and into the present day. We will engage in close readings of representative texts, attempting to sketch out a map of the contemporary Russian literary landscape and exploring how Russian-language authors respond to their literary heritage, their social and cultural milieus, and the political transitions of the past quarter-century. Readings will include works by such authors as Vladimir Sorokin, Viktor Pelevin, Liudmila Ulitskaia, Tatiana Tolstaia, Lev Rubinshtein, Elena Fanailova, and Evgenii Grihkovets.</p>				
Programme module type:	Optional for 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: 1.5-hour seminars and occasional film/video viewing, and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr K Holt, Dr B Dralyuk			
Lecturer(s)/Tutor(s):	Dr K Holt, Dr B Dralyuk			

RU4144 Russian Crime Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
Russian crime fiction is a hugely popular genre with the contemporary reading public and yet one which remains relatively critically neglected. This module provides students with the opportunity to study the history of the practice of crime fiction in Russia from c.1860 up to the present day. Students will consider the specific socio-historical context of the birth of the genre in the reform period of the early 1860s, as well as issues of 'high' and 'low' aesthetic genres, before moving on to read a broad range of such works. Discussion throughout will focus on both the literary poetics of the works as well as their relationship to historical situation and debate. Authors to be studied include: Sokolovskii, Panov, Dostoevskii, Shkliarevskii, Chekhov, Sokolova, Shaginian and Akunin.				
Programme module type:	Optional for all degrees involving Russian			
Learning and teaching methods and delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%			
	As used by St Andrews: Practical Oral Examination = 30%, Coursework = 70%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr C Whitehead			

RU4151 The City in Soviet and Russian Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be arranged.			
The history of Soviet cinema and the modern Soviet city are inextricably intertwined. From the very inception of the Communist state, the rapidly changing urban environment became a focus for cinematic reflection. Conversely, cinema played a fundamental role in forming urban identities through both the projection of an ideal of city life to communities and the collective experience of spectatorship. This module engages with representations of the city in Soviet and post-Soviet cinema as a utopian or dystopian space, a place of revolution, social transformation, warfare, invention, criminality, poverty, and memory. It looks at the ways the city has been understood and portrayed in Soviet cinema, from the use of mise-en-scène, montage, and editing, to dialogue, soundtracks and documentary recordings. The syllabus will include works by prominent Soviet and post-Soviet directors including Sergei Eisenstein, Vladimir Menshov, Aleksei Balabanov, and Valeriia Gai Germanika.				
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: 1.5-hour seminars and 1 surgery hour, plus film/video viewing.			
	Scheduled learning: 28 hours		Guided independent study: 122 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:	Coursework = 100%			
Module Co-ordinator:	Dr V Donovan			
Lecturer(s)/Tutor(s):	Dr V Donovan			

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RU4152 Vladimir Nabokov				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module focuses on the work of the Russian-American author, autobiographer, translator, and literary critic Vladimir Nabokov. It explores Nabokov's work in each of these interlocking spheres of activity, and in both of the languages and traditions associated with his hyphenated nationality. The module highlights themes that recur throughout Nabokov's oeuvre, including the relationship between art and life, the existence of an "otherworld", and a passionate antipathy toward the grand narratives of Marx and Freud. It introduces students to one of the central literary figures of the twentieth century and helps them position him in relation both to Russian literature and to broader trends in world literature – namely, modernism and postmodernism.</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: 1.5-hour seminars and 1 surgery hour			
	Scheduled learning: 27 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr B Dralyuk			
Lecturer(s)/Tutor(s):	Dr B Dralyuk			

RU4198 Dissertation on a Russian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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, except Single Honours Russian			
Pre-requisite(s):	Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.	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 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 Co-ordinator:	Dr E Finer			

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RU4199 Long Dissertation a Russian Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to students in the Final year of the Honours Programme.		
Planned timetable:	Please Contact Department		
<p>The dissertation offers students the possibility of personal advanced study on a topic which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with both the research co-ordinator and the potential supervisor. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Programme module type:	Compulsory for Single Honours Russian		
Pre-requisite(s):	Pass at 11 or better in RU2002, RU2004, RU2006, RU2106, RU2107, or RU2109.	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 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 Co-ordinator:	Dr E Finer		

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Spanish (SP) modules

SP3001 Spanish Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged.			
The overall objective of this core module is to promote advanced skills in listening, speaking, reading and writing in Spanish. In addition there will be elements that stimulate a high level of awareness of grammar. The syllabus is based on a selection of modern Spanish texts from both Spain and Spanish America which are used as sources for the study of various registers through reading and listening comprehension, precis and writing and rewriting exercises. The grammar involves a full understanding of an array of issues dealt with by Butt and Benjamin.				
Programme module type:	Compulsory for all degrees involving Spanish			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
Required for:	SP3002			
Learning and teaching methods and delivery:	Weekly contact: 1 class, 1 practical and 1 surgery hour.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Letrán			

SP3002 Spanish Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged.			
The overall objective of this core module is to promote advanced skills in listening, speaking, reading and writing in Spanish. The syllabus combines two main types of material: listening comprehension on the basis of recordings and a selection of texts for the study of different linguistic registers (including dialogues from fictional works and essays, books and sports reviews and written portraits of famous characters from newspapers.)				
Programme module type:	Compulsory for all degrees involving Spanish			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004, SP3001			
Required for:	SP4003, SP4102,			
Learning and teaching methods and delivery:	Weekly contact: 1 class, 1 practical and 1 surgery hour.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Letrán			

SP3006 Literary Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am - 10.30 am Wed			
This module is designed to guide and train the student of the Spanish language in the translation of demanding literary texts, both from and into Spanish. The emphasis will be on practical translation. The source texts will be chosen so as to represent a variety of periods, genres and registers. The module has a complementary relationship to language work in the core language modules. It will require systematic use of sources of information about Spanish (e.g. dictionaries, grammars). Emphasis will be placed on the quality of the translation. To achieve that end, the module will be conducted in seminar mode in order to stimulate discussion and revision of draft translations.				
Programme module type:	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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Prof G San Román			
Lecturer(s)/Tutor(s):	Prof G San Román and Dr C O'Leary			

SP3011 History of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	2.00 pm - 3.30 pm Fri			
The module explores the evolution of Spanish from Latin to the seventeenth century. A prior knowledge of Latin is not expected. In addition to linguistic and socio-political history, the module involves an introduction to the works of Spanish linguists of the period.				
Programme module type:	Optional for a degrees involving Spanish, once compulsory modules have been taken.			
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004			
o-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr K Anipa			

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SP3101 Spanish Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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):	Pass at Grade 11 or better in SP2002 or SP2004. 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.			
	Weekly contact: By correspondence throughout the year.			
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 Co-ordinator:	Dr K Anipa			

SP3121 Spanish American Literature I (Gauchos and Indians)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	9:30 am – 11:00 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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Prof G San Román			
Lecturer(s)/Tutor(s):	Prof G San Román			

SP3122 Spanish American Literature 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Planned timetable:	9.30 am – 11.00 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, Cortázar, Donoso, Sábato, García Márquez, 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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Prof G San Román			

SP3138 Mexico in the Nineteenth Century				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Prof W M Fowler			

Modern Languages - Honours Level - 2015/6 - January 2016

SP3145 Post-1975 Writing in Spain 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	3.00 pm - 4.30 pmTue			
<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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr J Letrán			

SP3157 Autobiographical Writing in Twentieth-Century Spain				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am - 12.30 pm Wed			
<p>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 Martin 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.</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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr R Fernández Romero			

SP3158 Representations of the Urban: Twentieth-Century Buenos Aires				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2016/7			
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			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E Kefala			
Lecturer(s)/Tutor(s):	Dr E Kefala			

SP3160 Facing the New: Spanish Literature and Society (1888 - 1918)				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2016/7			
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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr R Fernández Romero			
Lecturer(s)/Tutor(s):	Dr R Fernández Romero			

Modern Languages - Honours Level - 2015/6 - January 2016

SP3162 Strange Girls and Domestic Angels: Women's Writing in Spain			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6		
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 Maria Matute, Josefina Aldecoa, Rosa Montero, Lucia Etxebarria and Belen 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 x 1.5-hour seminar and 1 surgery hour.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	Coursework = 100%		
Module Co-ordinator:	Dr C O'Leary		
Lecturer(s)/Tutor(s):	Dr C O'Leary		

SP4003 Spanish Language 3			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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. SP4003 or SP4103 is a compulsory for Two language degrees with a third subject outwith the School of Modern Languages or Minor degrees 'with Spanish'.		
Pre-requisite(s):	SP3002 (see Honours Adviser if there is a problem).	Anti-requisite(s):	SP4102, SP4103
Required for:	SP4004		
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.		
	Scheduled learning: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr R Fernández Romero		
Lecturer(s)/Tutor(s):	Dr R Fernández Romero		

SP4004 Spanish Language 4: Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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, SP4103 or SP4102			
Learning and teaching methods and delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: 15-minute Oral Examination = 30%, Aural Comprehension = 30%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Fernández Romero			
Lecturer(s)/Tutor(s):	Dr R Fernández Romero			

SP4012 Linguistic Study of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr K Anipa			
Lecturer(s)/Tutor(s):	Dr K Anipa			

Modern Languages - Honours Level - 2015/6 - January 2016

SP4013 Culture and Conflict: Representing the Spanish Civil War				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
Planned timetable:	TBC			
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):	SP3001 and SP3002			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour and occasional film/video viewing			
	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:	Coursework = 100%			
Module Co-ordinator:	Dr C O'Leary			
Lecturer(s)/Tutor(s):	Dr C O'Leary			

SP4014 Spanish Avant-garde(s)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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):	SP3001 and SP3002			
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour seminar and 1 surgery hour			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Prof J Larios			
Lecturer(s)/Tutor(s):	Prof J Larios			

SP4015 Action Heroes and Anti-heroes in Early-Modern Spain			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6		
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):	SP3001 and SP3002		
Co-requisite(s):	Compulsory modules for Single and Major Spanish programmes		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour seminar and 1 surgery hour.		
	Scheduled learning: 28 hours	Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	Coursework = 100%		
Module Co-ordinator:	Dr T Bergman		
Lecturer(s)/Tutor(s):	Dr T Bergman		

Modern Languages - Honours Level - 2015/6 - January 2016

SP4098 Dissertation on a Spanish Topic			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1 & 2 (taught twice)
Academic year:	2015/6 & 2016/7		
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:	SP4098 or SP4099 is required for Single Honours Spanish. 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	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 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 Co-ordinator:	Dr T Bergman		

SP4099 Long Dissertation on a Spanish Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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:	SP4098 or SP4099 is required for Single Honours Spanish and students taking SP4102. SP4003 or SP4103 or (SP4102 with SP4099) is compulsory for all degrees involving Spanish.		
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004	Anti-requisite(s):	SP4098 or dissertation in another subject
Learning and teaching methods and delivery:	Weekly contact: 3 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 Co-ordinator:	Dr T Bergman		

Modern Languages - Honours Level - 2015/6 - January 2016

SP4102 Semester with Study Abroad in Spain			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	To be arranged.		
<p>The objective of the module is to allow students who are unable to take a year or a semester away from St Andrews in a Spanish-Speaking country to spend one term (September to December) studying in Spain at an institution with which we have a Erasmus exchange. The students will take a range of approved courses at the host university, Universitat Pompeu Fabra in Barcelona. They will also take SP4099, Spanish Dissertation; a dissertation topic will have been negotiated with their tutors before the summer recess. Preparation for SP4099 will be carried out during their stay in Spain, and continued in St Andrews during January and Semester 2. If places are available, the module can also be open to students who spent their WIYA year at a non-Spanish-speaking country, but not to those who have already spent an Erasmus year. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Programme module type:	SP4003 or SP4103 or (SP4102 with SP4099) is compulsory for all degrees involving Spanish, except Minor 'with Spanish' degrees.		
Pre-requisite(s):	SP3002	Anti-requisite(s):	SP4003, SP4103
Co-requisite(s):	SP4099	Required for:	SP4004
Learning and teaching methods and delivery:	This is a Study Abroad or External Placement module.		
	Weekly contact: By arrangement		
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:	Coursework = 100%		
Module Co-ordinator:	Dr K Anipa		

SP4224 Language and Reality and Illusion			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2 in 15/6, 1 in 16/7
Academic year:	2015/6 & 2016/7		
Planned timetable:	9.30 am - 11.00 am Tue		
<p>This module centres on the in-depth 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 will involve the study of a selection of canonical texts from Spain and Spanish America. The reading list will typically be available online as from the preceding month of May.</p>			
Programme module type:	Optional for Honours Spanish		
Pre-requisite(s):	Pass at Grade 11 or better in SP2002 or SP2004		
Co-requisite(s):	SP4004 for Single, Major and Joint Spanish programmes		
Learning and teaching methods and delivery:	Weekly contact: 1 x 1.5-hour seminar and 1 surgery hour.		
	Scheduled learning: 28 hours	Guided independent study: 122 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:	Coursework = 100%		
Module Co-ordinator:	Dr T Bergman		
Lecturer(s)/Tutor(s):	Dr T Bergman, Dr K Anipa, Dr E Kefala		

School of Philosophical, Anthropological & Film Studies

Film Studies (FM) modules

FM4099 Film Studies Dissertation			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1 or 2
Academic year:	2015/6 & 2016/7		
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:	Optional for Film Studies		
Pre-requisite(s):	FM2001 and FM2002 – with passes at 11 or better in both	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 Co-ordinator:	Prof R Burgoyne (S1), Dr D Hanlon (S2)		
Lecturer(s)/Tutor(s):	Prof R Burgoyne, Dr D Hanlon		

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

FM4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 degrees 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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

FM4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 Honours degrees 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.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

FM4108 Digital Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am - 12.00 noon Tue (Screenings: 4.30 pm - 7.00 pm Mon)			
<p>Almost everyone agrees that digital technologies are transforming the institution of cinema today, yet there is little agreement on how exactly to evaluate or even characterise that transformation. Is cinema "dying" or has cinema never been more alive? Has the digital spectator been emancipated, or are we more controlled than ever? And what's really "new" about new media anyway? This module will foreground these questions and others as we explore the impact of digital media on the production, distribution, consumption and collecting of moving images, as well as the recent transformations in how we think about cinema, its history and possible futures.</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.			
	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 Co-ordinator:	Dr M Cowan			
Lecturer(s)/Tutor(s):	Dr M Cowan			

FM4109 Film and the Archive				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	2.00 pm - 4.00 pm Tue (screening 5.00 pm - 7.30 pm Thu)			
<p>Film and the Archive will provide students with both a theoretical framework for archival research and practical experience in engaging with archival materials. In focusing this module on the local context of cinema in St Andrews, students will have the opportunity to develop their own research projects in one of five topic areas (exhibition, production, cinema culture, audiences, and star culture). Through these local studies, students will develop a broader understanding of film history and culture, learning to correlate their local research to broader developments in film history. Students will develop employable research skills that are useful beyond the specifics of the course. For example, they will have the opportunity to write, present and publish to both academic and general audiences, and will gain a thorough grounding in methodologies relevant for the archival study of cinema.</p>				
Programme module type:	Optional for Film Studies			
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 Co-ordinator:	Dr T Rice			
Lecturer(s)/Tutor(s):	Dr T Rice			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

FM4112 Images of the Past				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	12.00 noon - 2.00 pm Tues (Screening 4.30 pm - 7.00 pm Mon)			
<p>Images of the Past considers the role and influence of film as a medium of historical representation and analysis. By exploring the ways historical films shape our concept of the past through the specific languages and codes of the cinema, the module will provide students with a powerful set of tools for analyzing historical representation in film, and for evaluating the role of historical filmmaking in cultural life. Reading will include works from Film Studies and from Historiography, such as texts by Hayden White, Michel de Certeau, Robert A Rosenstone, Marcia Landy, and Natalie Zemon Davis.</p>				
Programme module type:	Optional for Film Studies			
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 Co-ordinator:	Prof R Burgoyne			
Lecturer(s)/Tutor(s):	Prof R Burgoyne			

FM4115 Sensory Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	10.00 am - 12.00 noon Mon (Screening 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: 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 Co-ordinator:	Dr L F Donaldson			
Lecturer(s)/Tutor(s):	Dr L F Donaldson			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

FM4116 Stars				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am - 12.00 noon Tue (Screening 5.00 pm - 9.00 pm Mon)			
<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 Co-ordinator:	Dr E Girelli			
Lecturer(s)/Tutor(s):	Dr E Girelli			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

FM4204 Asian Cinemas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	10.00 am - 12.00 noon 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 2015/16, the module will focus on the South and East Asian gangster 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.			
	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 Co-ordinator:	Dr D Hanlon			
Lecturer(s)/Tutor(s):	Dr D Hanlon			

FM4303 Documentary Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon - 2.00 pm Tue (Screening 7.30 pm - 10.00 pm Mon)			
<p>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.</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.			
	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 Co-ordinator:	Dr L Torchin			
Lecturer(s)/Tutor(s):	Dr L Torchin			

Music (MU) modules

MU3001 Concert Performance				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 tutorials, and 10 hours participation in performance masterclasses over the semester.			
	Scheduled learning: 35 hours		Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 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 Co-ordinator:	Mr B Williams			
Lecturer(s)/Tutor(s):	Mr B Williams			

Philosophy (PY) modules

PY3701 Language and Reality				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Wed (seminar time to be arranged).			
This module covers a range of foundational issues in the philosophy of language and metaphysics. The language component will focus on some of the following questions: What is meaning? Is there a distinction between meaning and reference? What are the puzzles of reference and how should we best solve them? Is there a distinction between what is said and what is implied? The reality component will focus on some of the following questions: What is an object? What is existence? How do objects change and persist? How should we distinguish universals from particulars? Are there universals? What is time? What is causation? What is a law of nature?				
Programme module type:	Compulsory for Single Honours Philosophy and Logic and Philosophy of Science. At least one of PY3701 and PY3702 is a compulsory for Joint Honours Philosophy.			
Pre-requisite(s):	PY1006	Anti-requisite(s):	PY3004	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	Dr A Crean			
Lecturer(s)/Tutor(s):	Dr A Crean & Dr W Pedriali			

PY3702 Value and Normativity				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	11.00 am - 1.00 pm Mon (seminar time to be arranged).			
This module will deal with a range of core debates in contemporary metaethics, but the issues discussed have relevance across the normative domain, including in the theory of rationality and in epistemology. Metaethical positions discussed will include naturalist and non-naturalist realism, error theory, moral relativism, and expressivism. The module will also deal with the nature of moral reasons, and the relationship between morality and rationality.				
Programme module type:	Compulsory for Single Honours Philosophy. At least one of PY3701 and PY3702 is a compulsory for Joint Honours Philosophy. Optional for Logic and Philosophy of Science.			
Pre-requisite(s):	PY1006	Anti-requisite(s):	PY3102	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	Dr J Snedegar			
Lecturer(s)/Tutor(s):	Dr J Snedegar, & Dr T Pummer			

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PY3999 Special Topic in Philosophy				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
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 Co-ordinator:	Colgate Staff representative TBC			
Lecturer(s)/Tutor(s):	Colgate Staff representative TBC			

PY4601 Paradoxes				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY1006, PY3701 or PY2002 (pre-or co-requisite(s))			
Co-requisite(s):	PY3701 or PY2002 (pre- or co-requisite(s))			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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PY4604 Political Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>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 <i>A Theory of Justice</i> (1971) and developed in <i>Political Liberalism</i> (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?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
Pre-requisite(s):	PY1006	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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

PY4606 Contemporary Epistemology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>Epistemology is a branch of philosophy concerned with the nature of knowledge, rational belief, evidence, and related issues. In this module, we will be discussing some of the most recent and exciting work in contemporary analytic epistemology. Some of the issues we will focus on are: How do contemporary epistemologists deal with the problem of philosophical scepticism? How is perceptual knowledge possible? What are we saying when we say someone 'knows' something? Do we always mean the same thing? What is the relationship between knowledge and our practical interests? Is a priori knowledge possible? If so, how?</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
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 Co-ordinator:	Dr P Greenough			
Lecturer(s)/Tutor(s):	Dr P Greenough			

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PY4608 Political Philosophy in the Age of Revolutions				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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 Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY1006			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture/seminar and 1 x 1-hour tutorial.			
	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 Co-ordinator:	Dr J Harris			
Lecturer(s)/Tutor(s):	Dr J Harris			

PY4609 Philosophical Methodology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 and Logic and Philosophy of Science.			
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 (or suitable equivalent in the case of formal logic)			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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PY4610 Philosophy of Perception				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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 and Logic and Philosophy of Science.			
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 (or suitable equivalent in the case of formal logic)			
Module Co-ordinator:	Dr S Prosser			
Lecturer(s)/Tutor(s):	Dr S Prosser			

PY4611 Classical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 and Logic and Philosophy of Science.			
Pre-requisite(s):	PY1006, PY2003			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Dr B Sattler			
Lecturer(s)/Tutor(s):	Dr B Sattler			

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PY4612 Advanced Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>The module presupposes facility in the elementary practice of logic provided by PY2001. 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 and Logic and Philosophy of Science.			
Pre-requisite(s):	PY1006, PY2001	Anti-requisite(s):	PY4816	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Take-home Examination = 100%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words (or suitable equivalent in the case of formal logic)			
Module Co-ordinator:	Dr A Cotnoir			
Lecturer(s)/Tutor(s):	Dr A Cotnoir			

PY4614 Philosophy of Mind				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 and Logic and Philosophy of Science.			
Pre-requisite(s):	PY1006	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 = 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 Co-ordinator:	Dr S Prosser			
Lecturer(s)/Tutor(s):	Dr S Prosser			

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PY4615 Metaphysics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 to be discussed include: the metaphysical status of past and future objects; how objects and persons persist through time; the metaphysical status of merely possible worlds and individuals; and questions about identity across possible worlds. Readings from Saul Kripke, David Lewis, Ted Sider, Derek Parfit, and others.				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science.			
Pre-requisite(s):	PY1006, PY3701 or PY3004	Anti-requisite(s):	PY3007	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

PY4617 The Philosophy of Saul Kripke				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY1006, PY3701			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	Dr E Glick			
Lecturer(s)/Tutor(s):	Dr E Glick			

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PY4618 Animals, Minds and Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
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?				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
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 = 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 Co-ordinator:	Dr D Ball			
Lecturer(s)/Tutor(s):	Dr D Ball			

PY4619 Social Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
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'.				
Programme module type:	Optional for 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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PY4620 Virtue and Vice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
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.				
Programme module type:	Optional for 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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

PY4622 Kant's Critical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
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 Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY1006	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 Co-ordinator:	Dr J Timmermann			
Lecturer(s)/Tutor(s):	Dr J Timmermann			

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PY4624 Philosophy of Art				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>What makes an object a work of art? Are artworks always physical objects, or can they be mental, or abstract, entities? Can good art be morally bad? 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.</p>				
Programme module type:	Optional for Philosophy			
Pre-requisite(s):	PY1006, PY2101	Anti-requisite(s):	PY4812	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Take-Home Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Dr L Jones			

PY4625 Philosophy and Public Affairs: Global Justice				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Availability restrictions:	SEMESTER to Be confirmed.			
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 and Logic and Philosophy of Science			
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 = 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 Co-ordinator:	Dr E Ashford			
Lecturer(s)/Tutor(s):	Dr E Ashford and Dr B Kin Ting Ho			

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PY4626 Life and Death				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
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?				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY1006	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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

PY4632 Contemporary Philosophy of Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006, PY3701			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	Dr E Glick			
Lecturer(s)/Tutor(s):	Dr E Glick			

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PY4634 Philosophy of Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>The module covers philosophical issues that arise in connection with the logical notions of truth and consequence. We will consider several important theories of truth. What are the correct bearers of truth (e.g. sentences, propositions)? Does truth consist in correspondence to facts? Or is truth a more pragmatic or explanatorily thin property? Can truth be defined? Does truth have one nature, or many natures, or none at all? Secondly, we will consider several important theories of logical consequence.</p> <p>How is consequence related to truth? Does the correct theory of consequence involve proofs or models? Is logic revisable, or is it a presupposed foundation for any such revision? Is logic normative for thought or otherwise related to rationality? Finally, are there many correct consequence relations, or only one, or none at all?</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY3701	Anti-requisite(s):	PY4804	
Learning and teaching methods and delivery:	Weekly contact: 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 Co-ordinator:	Dr A Cotnoir			
Lecturer(s)/Tutor(s):	Dr A Cotnoir			

PY4635 Contemporary Moral Theory				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006, PY3702 (or co-req)	Anti-requisite(s):	PY4808	
Co-requisite(s):	PY3702 (or pre-req)			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Dr B Sachs			
Lecturer(s)/Tutor(s):	Dr B Sachs and Dr T Pummer			

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PY4638 Philosophy of Religion				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
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 and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006	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: 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 Co-ordinator:	Prof S Broadie			
Lecturer(s)/Tutor(s):	Prof S Broadie and Prof T Mulgan			

PY4639 Philosophy of Creativity				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 and Logic and Philosophy of Science.			
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 Co-ordinator:	Prof B Gaut			
Lecturer(s)/Tutor(s):	Prof B Gaut			

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PY4640 Mediaeval Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>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.</p>				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science. 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: 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 Co-ordinator:	Dr M Thakkar			
Lecturer(s)/Tutor(s):	Dr M Thakkar			

PY4642 Trust, Knowledge and Society				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>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?</p>				
Programme module type:	Optional for Philosophy, Logic and Philosophy of Science			
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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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PY4643 Philosophy of Law				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 Philosophy, Logic and Philosophy of Science			
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 Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

PY4644 Rousseau on Human Nature, Society, and Freedom				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
Jean-Jacques Rousseau (1712-1778) was one of the most acute critics of the illusions and self-deceptions of the eighteenth century. He has also often been seen as the first to understand the nature of 'modernity', and the first also to identify the difficulties human beings were going to find in living fulfilled and happy lives in the modern world. In his political writings especially, but also in his books on education and on the arts, and in his remarkable autobiographical texts, Rousseau explored the human condition and its problems with a vividness and directness that few have managed since. In this module we will focus on three texts in particular: Discourse on the Origins of Inequality (1754), On the Social Contract (1762), and Émile, or, On Education (1762).				
Programme module type:	Optional for Single and Joint Honours Philosophy and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006			
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 Co-ordinator:	Dr J Harris			
Lecturer(s)/Tutor(s):	Dr J Harris			

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PY4645 Philosophy and Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006, PY2101			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	1 or more essays to a total of 7,000 words			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Dr L Jones			

PY4646 Reasons for Action and Belief				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 and Logic and Philosophy of Science			
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 Co-ordinator:	Dr J Snedegar			
Lecturer(s)/Tutor(s):	Dr J Snedegar			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

PY4647 Humans, Animals, and Nature				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
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 and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006			
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 Co-ordinator:	Dr B Sachs			
Lecturer(s)/Tutor(s):	Dr B Sachs			

PY4698 Dissertation (Whole Year)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
<p>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.</p>				
Programme module type:	Optional for Philosophy and Logic and Philosophy of Science			
Pre-requisite(s):	PY1006	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 Co-ordinator:	Philosophy Honours Adviser			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

PY4699 Dissertation in Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1 or 2
Academic year:	2015/6 & 2016/7			
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 Philosophy, Logic and Philosophy of Science			
Pre-requisite(s):	PY1006	Anti-requisite(s):	PY3803, PY4698, PY4701, PY4802	
Learning and teaching methods and delivery:	Weekly contact: Fortnightly meetings over one 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:	No Re-Assessment available			
Module Co-ordinator:	Philosophy Honours Adviser			

PY4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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.				
Programme module type:	Optional for Joint and 'with' degrees 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - August 2015

PY4701 Philosophy and Pedagogy			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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 and Logic and Philosophy of Science, 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 Co-ordinator:	Dr L Jones		
Lecturer(s)/Tutor(s):	Dr L Jones		

Social Anthropology (SA) modules

SA3030 Critical Thinkers and Formative Texts				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
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 Co-ordinator:	Prof R Dilley			
Lecturer(s)/Tutor(s):	Prof R Dilley			

SA3031 Anthropological Study of Language and Culture				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module examines central theoretical approaches within anthropology that take as their focus issues relating to the analyses of language and of culture. The module concentrates on methodological concerns deriving from theories of language, and it deals with the problems of interpretation of both language and culture as systems of symbols and meanings.				
Programme module type:	Optional for Social Anthropology			
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 Co-ordinator:	Prof P G Gow			
Lecturer(s)/Tutor(s):	Prof P G Gow			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA3049 Perception, Imagination and Communication				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr H Wardle			
Lecturer(s)/Tutor(s):	Dr H Wardle			

SA3050 Interpreting Social and Cultural Phenomena				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2015/6			
Planned timetable:	9.00 am and 10.00 am Fri.			
This module provides a critique of the idea of social and/or cultural construction that currently dominates the human sciences and suggests that it makes better sense to think of everything about human beings (including their very physicality) as historical phenomena. The module addresses five core areas of research in the human sciences: love, food and eating, children and childhood, work, and death. While the emphasis is on anthropological sources, students are asked to read and think about psychological and sociological texts as well. In all cases, students are asked to approach the various readings as products of the writers' theoretical perspectives on what it is to be human and what they consider to be the nature of explanation in the human sciences, including anthropology.				
Programme module type:	Optional for Social Anthropology			
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, a fortnightly tutorial.			
	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 Co-ordinator:	Prof C Toren			
Lecturer(s)/Tutor(s):	Prof C Toren			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA3057 Sex and Gender				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be arranged.			
This module provides a cross-cultural perspective on sex and gender, and explores both anthropological and local understandings of personhood, masculinity, femininity and the sexed body. The module links gender relations to wider economic and political processes, and to the exercise of power and of resistance. As well as looking at non-Western societies, the module examines the West, and questions the extent to which Western understandings to do with biology, sex, gender and the body can be used as analytical tools in cross-cultural comparison.				
Programme module type:	Optional for Social Anthropology			
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 Co-ordinator:	Dr P Gay y Blasco			
Lecturer(s)/Tutor(s):	Dr P Gay y Blasco			

SA3059 Colonial and Post-Colonial Representations				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
How do 'we' see Africa? How does Africa 'look' back? Drawing our examples from visual media, we will explore how the colonial imaginations of Africa, from Tarzan to Tribe, have distorted our knowledge of the continent. How does this particular version of Orientalism work? How does it shape ideas of anthropology, tourism, conservation and development? Has decolonisation and post-colonialism changed this? Including the works of such filmmakers as Rouch, Sembene and Teno, we will see how Africa has come to 'shoot' back and challenge the way 'we' see the world.				
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 Co-ordinator:	Dr M Frankland			
Lecturer(s)/Tutor(s):	Dr M Frankland			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA3061 Reading Ethnography				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module will help students develop the essential skill of reading ethnography. Its aim is to investigate the distinctiveness of anthropology as a way of knowing the world, and of ethnographic writing as an also distinctive way of constructing and conveying that knowledge. The module will lay bare some of the central, often implicit, codes and conventions of ethnographic writing, and will explore how anthropologists use these to create and transmit knowledge about diverse social worlds. Rather than aiming to impart knowledge, the aim of the module is to provide students with the skills necessary to analyse ethnographies, and to guide them through an investigation into the distinctive qualities of anthropological knowledge.</p>				
Programme module type:	Optional for Social Anthropology			
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: 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:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr P Gay y Blasco			
Lecturer(s)/Tutor(s):	Dr P Gay y Blasco			

SA3063 Anthropology of Religion				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
<p>This module will provide an introduction to the main anthropological approaches to religion. What, if any, are the distinguishing features of religion that make it a special object of analysis? A wide range of ethnographic and historical examples will be used to examine this question and related topics such as the relationship between ritual and power, ideology and consciousness, myth and imagination, and the disenchantment of the world. Consideration will be given also to the role of religion in the evolution of humanity.</p>				
Programme module type:	Optional for Social Anthropology			
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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr A Joyce			
Lecturer(s)/Tutor(s):	Dr A Joyce			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA3064 The Anthropology of Migration				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module will offer students the opportunity to examine past and present theoretical debates on migration. It will look at the ways in which major social, political and economic shifts at local and global level have contributed to the making and re-making of migrant subjectivities and identities in a globalised world. The module will focus specifically on a series of interconnected debates on cosmopolitanism, migration, citizenship and multiculturalism. This is intended to increase students' awareness of the active role played by migrants in wider political, social, and economic transformations, and for current anthropological debates on agency and personhood, on gender and intimacy, on subjectivity and identity.</p>				
Programme module type:	Optional for Social Anthropology			
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 per week and 2 hours film/video viewing in total.			
	Scheduled learning: 24 hours		Guided independent study: 276 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr M Fumanti			
Lecturer(s)/Tutor(s):	Dr M Fumanti			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA3506 Methods in Social Anthropology			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2015/6		
Availability restrictions:	Not available to General Degree students		
Planned timetable:	2.00 pm - 4.00 pm Mon.		
<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 Co-ordinator:	Dr A D E Reed		
Lecturer(s)/Tutor(s):	Dr A D E Reed		

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4005 The West Indies and the Black Atlantic				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>The West Indies is an anomalous region in relation to the classic aim of anthropology to study small-scale non-Western societies. The modern Caribbean, created out of the slave plantation system and the transportation of millions of Africans and others from the old to the New world, brought into being entirely novel forms of transatlantic culture. This module asks students to rethink the distinction between Western and non-Western culture and to consider the meaning of 'modern' as opposed to 'traditional' society. The Creole cultures of the Caribbean are explored in depth as are the transmigrant experience of many West Indians in metropolitan centers in the first world.</p>				
Programme module type:	Optional for Social Anthropology			
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 Co-ordinator:	Dr H O B Wardle			
Lecturer(s)/Tutor(s):	Dr H O B Wardle			

SA4058 Visual Anthropology				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 Co-ordinator:	Dr M Frankland			
Lecturer(s)/Tutor(s):	Dr M Frankland			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4059 Living with Material Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module creatively addresses anthropological approaches to material culture and develops a critical understanding of how things play a part in human social relationships. We will explore how people live through things, using the body to transform materials from the environment into artefacts; consuming and displaying objects; incorporating them into domestic activities such as house-building and home-making, even living in them; transforming us in life cycle events such as weddings and funerals; re-membering our pasts through tourist souvenirs, monuments or ceremonial shrines; and creating things which move us, whether 'magical artefacts' or 'works of art'. Students will become familiar with both key theoretical texts in material culture studies and the variety of artifacts and ways of representing them which have become almost iconic in material culture and 'ethnographic art' (from rock art sites to heritage centres; from masks to Surrealist art; from domestic artifacts to folk art).</p>				
Programme module type:	Optional for Social Anthropology			
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: 77 hours		Guided independent study: 223 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr S Bunn			
Lecturer(s)/Tutor(s):	Dr S Bunn			

SA4098 Library-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students taking Single Honours, Joint Honours and Major Degrees			
Planned timetable:	To be arranged.			
<p>The module consists of a supervised exercise in social anthropological enquiry. This will include a library-based independently researched dissertation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Programme module type:	Optional for Social Anthropology			
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: 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: 7,500-word Dissertation = 100%			
Re-Assessment pattern:	7,500-word Essay = 100%			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4099 Primary Research-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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: 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: 10,000-word Dissertation = 100%			
Re-Assessment pattern:	10,000-word Essay = 100%			

SA4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement. 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 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4821 Amerindian Language and Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
Planned timetable:	12.00 noon - 1.00 pm Tue, 1.00 pm - 2.00 pm Thu.			
The module introduces students to the rudiments of an indigenous South American language vastly different from European languages; it outlines salient elements of the culture of which this language is a part.				
Programme module type:	Optional for Social Anthropology			
Pre-requisite(s):	SA2001 and SA2002 with passes at grade 11 or better in both	Anti-requisite(s):	SA3021	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture and 1 seminar			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr S Hyland			
Lecturer(s)/Tutor(s):	Dr S Hyland			

SA4850 Andes				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
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 Co-ordinator:	Dr S Hyland			
Lecturer(s)/Tutor(s):	Dr S Hyland			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4857 West Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
The module examines some of the central themes in anthropological studies of the history and social organisation of West African peoples. West Africa has been the source of much innovative work relevant to the broader field of social anthropological theory. Attention will be given to a selected set of topics from the literature. The module will give an appreciation of the cultural particularities of the region as well as an awareness of the wider theoretical importance of the selected topics.				
Programme module type:	Optional for Social Anthropology			
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 per week and fortnightly tutorial.			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Prof R Dilley			
Lecturer(s)/Tutor(s):	Prof R Dilley			

SA4860 Anthropology of Amazonia				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
The indigenous peoples of Amazonia have been the subjects of a dramatic increase in ethnographic attention since the late 1960's from anthropologists from many different countries, and the field is currently generating important publications of both ethnographic and theoretical topics. The module addresses this literature, and develops a substantive knowledge of the nature of indigenous societies of the region, on areas like ecology, social organization, recent history, mythology, ritual and the body. By a process of reiterated comparison between specific ethnographic cases, the module allows for the appreciation of these many separate societies as topological transformations of each other, and hence to raise important historical questions about these supposedly 'a-historical' societies.				
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: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Prof P Gow			
Lecturer(s)/Tutor(s):	Prof P Gow			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4862 Imagining the World: The Anthropology of Consciousness				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
The anthropology of consciousness is central to contemporary anthropology. This module shows how significant ethnographic studies are for understanding certain aspects of consciousness and for the development of theory in this domain.				
Programme module type:	Optional for Social Anthropology			
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 Co-ordinator:	Prof C Toren			
Lecturer(s)/Tutor(s):	Prof C Toren			

SA4863 Youth in Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Planned timetable:	To be arranged.			
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: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	6,000-word Essay = 100%			
Module Co-ordinator:	Dr M Fumanti			
Lecturer(s)/Tutor(s):	Dr M Fumanti			

Philosophical, Anthropological & Film Studies - Honours Level - 2015/6 - December 2015

SA4865 Ethnohistories of the Americas				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	TBC
Academic year:	2016/7			
Planned timetable:	To be arranged.			
<p>This module is designed to introduce students to anthropological and historical perspectives on Americas (with specific focus on South America). A convenient cover term for the way the material is approached is ethnohistorical. Emphasis will be on the study of particular problems identified by anthropologists and historians. These include topics such as whether contemporary indigenous people are a reliable guide to understanding pre-European conquest societies, how can we understand the cultural mixtures that occurred between African, American and European traditions, the impact of colonialism and neo-colonialism on indigenous and peasant people, and the relationship of people to their environment and so on. The attention to 'problems' highlights the importance this module will give to 'ways of knowing' about other societies. Can we rely on what people tell us they know? Can historical documents be of use to ethnographers? In this course you will attempt to answer these questions for yourselves through various practical projects and tasks.</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: 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 Co-ordinator:	Dr M Harris			
Lecturer(s)/Tutor(s):	Dr M Harris			

SA4866 Anthropology and Eurasia				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2015/6			
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 Co-ordinator:	Dr S Bunn			
Lecturer(s)/Tutor(s):	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 or 4000-level modules must consult with the relevant Honours Adviser within the School to confirm they are properly qualified to enter the module.

Astronomy (AS) Modules

AS3013 Computational Astrophysics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 5.30 pm Mon and Thu			
The aim of this module is to introduce students to computational methods in astrophysics. Based on a general introduction to the programming language Fortran-90, students are shown how to apply simple numerical algorithms to calculate integrals, iteratively find the roots of non-linear equations, solve systems of ordinary differential equations, and to develop tools for statistical data analysis. Further emphasis is put on the development of skills to make convincing plots from the calculated data. The practical exercises include applications to the initial mass function in star formation, the calculation of orbits for N-body gravitational problems and in mean galactic potentials, and planet transition light-curves. Students gain experience with the basics of numerical accuracy, and the development of problem-solving algorithms in general."				
Programme module type:	Compulsory for Astrophysics Optional for Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
Pre-requisite(s):	AS2001 or AS2101, 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 11 weeks). Mostly hands-on guided work on computers, but with occasional presentation.			
	Scheduled learning: 77 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (practical work, the submission of computer code and computational solutions to given problems) = 100%			
Re-Assessment pattern:	No Re-Assessment available - laboratory based			
Module Co-ordinator:	Dr P Voitke			
Lecturer(s)/Tutor(s):	Dr P Voitke, Dr Ch Helling, Prof K Horne (TBC)			

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AS4010 Extragalactic Astronomy			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	12.00 noon Mon, Tue, Thu		
<p>This module introduces the basic elements of extragalactic astronomy. This includes the morphological, structural and spectral properties of elliptical, spiral, quiescent and star-forming galaxies. We study how galaxy populations change from the distant galaxies in the early Universe into those observed in our local neighbourhood, including the coincident growth of super massive black holes at the centres of massive galaxies. Galaxy formation theory is introduced in relation to the growth of structure in a cold-dark matter, and galaxy evolution in regions of high and low density is investigated. The module includes a look at modern instrumentation used in extragalactic astrophysics.</p> <p>Specialist lecturers from within the galaxy evolution research group will provide a direct link between material learnt in lectures and research currently being undertaken at the University of St Andrews.</p>			
Programme module type:	Compulsory for Astrophysics 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 = 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 Co-ordinator:	Dr V Wild		
Lecturer(s)/Tutor(s):	Dr V Wild, Dr A M Weijmans (TBC)		

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AS4011 The Physics of Nebulae and Stars 1			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	10.00 am Mon, Tue, Thu		
<p>This module introduces the physics of astrophysical plasmas, as found in stars and interstellar space, where interactions between matter and radiation play a dominant role. A variety of absorption, emission, and scattering processes are introduced to describe exchanges of energy and momentum, which link up in various contexts to control the state and motion of the matter, to regulate the flow of light through the matter, and to impress fingerprints on the emergent spectrum. The theory is developed in sufficient detail to illustrate how astronomers interpret observed spectra to infer physical properties of astrophysical plasmas. Applications are considered to photo-ionise nebulae, interstellar shocks, nova and supernova shells, accretion discs, quasar-absorption-line clouds, radio synchrotron jets, radio pulsars, and x-ray plasmas. Monte-Carlo computational techniques are introduced to model radiative transfer.</p>			
Programme module type:	Compulsory for Astrophysics MPhys At least 2 of AS4011, AS4012, AS4015, AS4021, AS4025, PH4031 are compulsorys 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: 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 Co-ordinator:	Dr K Wood		
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7		
Planned timetable:	11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue		
<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 compulsorys 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: 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 Co-ordinator:	Prof A C Cameron		
Lecturer(s)/Tutor(s):	Prof A C Cameron and Dr P Voitke (TBC)		

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AS4015 Gravitational and Accretion Physics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 3.00 pm even Mon		
<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])	Anti-requisite(s):	AS4021
Learning and teaching methods and delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Prof I Bonnell		
Lecturer(s)/Tutor(s):	Prof I Bonnell (TBC)		

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AS4025 Observational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	2.00 pm - 5.30 pm Mon and Thu, plus some nights.		
<p>This is an observational and laboratory-based module that introduces students to the hands-on practical aspects of planning observing programmes, conducting the observations and reducing and analysing the data. Students use the James Gregory Telescope for CCD imaging and structural analysis of galaxies, and for CCD photometry of transiting exoplanet candidates. Further sources of data may be made available from international observatories. Observations are also secured at the University Observatory using a student-built radio telescope to observe low-frequency radio emission from the Galactic plane. 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 Co-ordinator:	Dr C Cyganowski		
Lecturer(s)/Tutor(s):	Dr C Cyganowski, Prof S Driver (TBC)		

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AS4103 Astrophysics Project (BSc)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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:	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.		
	Scheduled learning: 140 hours	Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (Review Article, Project Report, Presentation and Oral Examination) = 100%		
Re-Assessment pattern:	No Re-Assessment available - Final year project		
Module Co-ordinator:	Prof K Horne		
Lecturer(s)/Tutor(s):	Astronomy staff		

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AS5001 Advanced Data Analysis			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
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)		
<p>This module develops an understanding of basic concepts and offers practical experience with the techniques of quantitative data analysis. Beginning with fundamental concepts of probability theory and random variables, practical techniques are developed for using quantitative observational data to answer questions and test hypotheses about models of the physical world. The methods are illustrated by applications to the analysis of time series, imaging, spectroscopy, and tomography datasets. Students develop their computer programming skills, acquire a data analysis toolkit, and gain practical experience by analyzing real datasets.</p>			
Programme module type:	At least two of AS5001, AS5002, and AS5003 must be taken for 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 or entry to a taught postgraduate programme in the School.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials and some supervised computer lab sessions		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	No Re-Assessment available - laboratory based		
Module Co-ordinator:	Prof K Horne		
Lecturer(s)/Tutor(s):	Prof K Horne		

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AS5002 Magnetofluids and Space Plasmas			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
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		
<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):	(PH2012 or MT3601), (PH3081 or PH3082 or MT2003 (or MT2506 and MT2507)), PH4031 is strongly recommended. Entry to an MPhys programme or a taught postgraduate programme in the School.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Prof M M Jardine		
Lecturer(s)/Tutor(s):	Prof M M Jardine (TBC)		

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AS5003 Contemporary Astrophysics			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to MPhys Astronomy students.		
Planned timetable:	12.00 noon Wed, Fri and 3.00 pm Mon		
This module will provide an annual survey of the latest, most interesting, developments in astronomy and astrophysics at the research level. Emphasis will be placed upon the application of knowledge and expertise gained by students in their other modules to these current research topics.			
Programme module type:	At least two of AS5001, AS5002, and AS5003 must be taken for MPhys Astrophysics Optional for Postgraduate programmes in the School.		
Pre-requisite(s):	UG - AS4010, AS4012, PH3061, PH3081. PG - Substantial astronomy knowledge and skills.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and tutorials		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Dr H Zhao		
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7		
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
Learning and teaching methods and delivery:	<p>Weekly contact: Project students work "full-time" on their MPhys project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in astronomy computer clusters in the School, where students can benefit from peer support and informal interaction with academic supervisor and other members of research teams. It is expected that the 40 hours a week will be primarily in this environment.</p>		
	Scheduled learning: 300 hours	Guided independent study: 300 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>		
	<p>As used by St Andrews: Coursework = 100%</p>		
Re-Assessment pattern:	No Re-Assessment available - Final year project		
Module Co-ordinator:	Prof K Horne		
Lecturer(s)/Tutor(s):	Astronomy staff		

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Interdisciplinary modules

ID4001 Communication and Teaching in Science			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to final year students who have been accepted following application and interview in the preceding semester.		
Planned timetable:	Flexible		
<p>This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.</p>			
Programme module type:	Optional for degrees in the Faculty of Science who meet the appropriate criteria.		
Learning and teaching methods and delivery:	Weekly contact: Occasional tutorials and a half-day training session.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 55%, Coursework = 45%		
	As used by St Andrews: Coursework = 100% comprising: Written report on the placement (35%) Teacher's assessment of student's placement (25%) Oral presentation (30%) Project proposal (10%)		
Re-Assessment pattern:	No Re-Assessment available		
Module Co-ordinator:	Dr B Sinclair		
Lecturer(s)/Tutor(s):	Dr A Naughton, Dr R Robinson, Dr F Gray, Dr J Wishart, Dr R Latham, Dr M Campbell, Dr B Sinclair, and visiting speakers		

Physics (PH) modules

PH3007 Electromagnetism				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.05 am Mon even numbered weeks, 9.05 Tue, Thu, 15.05 Fri odd-numbered weeks			
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 MT2507)]) and PH2012 and [MT2001 or (MT2501 and MT2503)].			
Required for:	PH4025, PH4027, PH4032, PH5005			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr C Baily			
Lecturer(s)/Tutor(s):	Dr C Baily			

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PH3012 Thermal and Statistical Physics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 2.00 pm even Tue			
<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: 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:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Prof S Lee			
Lecturer(s)/Tutor(s):	Prof S Lee, Dr I Leonhardt			

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PH3014 Transferable Skills for Physicists			
SCOTCAT Credits:	15	SCQF Level 9	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Not automatically available to General Degree students.		
Planned timetable:	10.00 am Wed, occasional 10.00 am Fri		
<p>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.</p>			
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, 7 tutorials, 2 workshops, and about 14 hours of presenting and/or critically evaluating talks.		
	Scheduled learning: 29 hours	Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework on basis of exercises = 100%		
Re-Assessment pattern:	No Re-Assessment available - Assignment based		
Module Co-ordinator:	Dr B D Sinclair		
Lecturer(s)/Tutor(s):	Dr B D Sinclair and others		

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PH3061 Quantum Mechanics 1			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	9.00 am Tue, Thu and Mon 4 pm		
This module introduces the main features of quantum mechanics. The syllabus includes: early ideas on quantisation, the emergence of the Schrödinger equation, the interpretation of the wave function and Heisenberg's uncertainty relation. The concepts of eigenfunctions and eigenvalues. Simple one-dimensional problems including potential wells and barriers; the linear harmonic oscillator. Solution of the Schrödinger equation for central forces, the radial Schrödinger equation, and the hydrogen atom.			
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics, Chemistry and Physics, 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: 26 hours	Guided independent study: 74 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Dr A Kohnle		
Lecturer(s)/Tutor(s):	Dr A Kohnle		

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PH3062 Quantum Mechanics 2				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Wed, Fri			
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: 26 hours		Guided independent study: 74 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr A Kohnle			
Lecturer(s)/Tutor(s):	Dr A Kohnle			

PH3074 Electronics				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Mon, Wed, Fri, 10.00 am Fri lab			
This module gives a basic grounding in practical electronics. It introduces and develops the basic principles underlying the synthesis and analysis of digital and analogue circuits. The module is divided into three parts: an introductory section which reviews those parts of electromagnetism most related to electronics, including d.c. and a.c. circuit theory; a section on transistors and amplifiers including simple transistor circuits and noise considerations; and a section on digital electronics including logic gates, flip-flops and the design of circuits with applications to counters, latches registers etc.				
Programme module type:	Compulsory for Physics 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: 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 Co-ordinator:	Dr P Cruickshank			
Lecturer(s)/Tutor(s):	Dr P Cruickshank			

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PH3080 Computational Physics				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	Whole Year (semester 1 plus start of semester 2)
Academic year:	2015/6 & 2016/7			
Planned timetable:	3.00 pm Mon and 3.5 hours on 1 afternoon of Tue, Thu, Fri			
<p>This module is designed to develop a level of competence in Mathematica, a modern programming language currently used in many physics research labs for mathematical modelling. No prior experience is required. The module starts with a grounding in the use of Mathematica and discusses symbolic solutions and numerical methods. The main focus will be the use of Mathematica for problem solving in physics. The module is continually assessed through short tests and assignments, with the bulk of the assessment based on the submission of a Mathematica project.</p>				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Theoretical Physics This or one of the computational maths modules is compulsory for the joint degrees with Mathematics.			
Pre-requisite(s):	PH2001, 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: 1-hour lecture weeks 1-11, 3.5-hours PC classroom session in each of weeks 1-5 and 7-8, 3-hour project contact time weeks 9-11.			
	Scheduled learning: 44 hours		Guided independent study: 56 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available - laboratory based			
Module Co-ordinator:	Dr M Mazilu			
Lecturer(s)/Tutor(s):	Dr M Mazilu, Dr A Gillies, Dr G Smith			

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PH3081 Mathematics for Physicists			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	10.00 am even Mon, Tue, Thu, 2.00 pm odd Mon		
<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 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 tutorials.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (Class Tests) = 20%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Dr C Baily		
Lecturer(s)/Tutor(s):	Dr C Baily		

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PH3082 Mathematics for Chemistry / Physics				
SCOTCAT Credits:	20	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to Chemistry and Physics MSci students			
Planned timetable:	10.00 am even Mon, Tue, Thu, 2.00 pm odd Mon, 3.00 pm Mon, and one afternoon 2.00-5.30 pm of Tue, Thu, Fri			
<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: Overlap with PH3081 is 3 lectures a week plus 0.5 tutorials a week. Overlap with PH3082 is in total 4 hours lectures, 18 hours supported computing lab sessions, and 3 hours test			
	Scheduled learning: 63 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr C Baily			
Lecturer(s)/Tutor(s):	Dr C Baily, Dr M Mazilu, Dr A Gillies, Dr G Smith			

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PH3101 Physics Laboratory 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu			
The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instill an appreciation of the significance of experiments and their results. The module consists of sub-modules on subjects such as solid state physics, lasers, interfacing, and signal processing and related topics.				
Programme module type:	Compulsory for Physics 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 Co-ordinator:	Dr C Rae			
Lecturer(s)/Tutor(s):	Dr C Rae and others			

PH4022 Nuclear and Particle Physics				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon Wed and Fri			
The aim of this module is to describe in terms of appropriate models, the structure and properties of the atomic nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: nuclear sizes, binding energy, spin dependence of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; spin-orbit coupling; energetics of beta-decay, alpha-decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks, and ideas that go beyond the standard model.				
Programme module type:	Compulsory for Astrophysics, Physics, Theoretical Physics, Chemistry and Physics, 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)]), PH3061 and PH3062	Anti-requisite(s):	PH4040	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures or tutorials.			
	Scheduled learning: 22 hours		Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Dr A Kohnle			
Lecturer(s)/Tutor(s):	Dr A Kohnle			

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PH4025 Physics of Electronic Devices				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am even Mon, Tue, Thu, 3.00 pm odd Mon			
	<p>The module describes the physical phenomena involved in the operation of semiconductor devices, and then shows how the phenomena determine the properties of specific devices such as the transistor. Although only a few devices are described, the student taking the module should acquire a sufficient background to understand a wide variety of modern semiconductor devices. The module covers: semiconductor properties: band gaps, optical and electrical properties; conduction in an electric field and by diffusion; factors determining the concentrations of electrons and holes; the continuity equation; properties of pn junctions and Schottky diodes; typical devices: bipolar transistor, field-effect transistor, MOSFET, light emitting diodes, semiconductor lasers.</p>			
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)]), PH3007, PH3012, PH3061			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr L O'Faolain			
Lecturer(s)/Tutor(s):	Dr L O'Faolain, Prof G Turnbull			

PH4026 Signals and Information				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon			
	<p>This module gives an introduction to what are signals and information, and how they are measured and processed. It also covers the importance of coherent techniques such as frequency modulation and demodulation and phase sensitive detection. The first part of the module concentrates on information theory and the basics of measurement, with examples. Coherent signal processing is then discussed, including modulation/demodulation, frequency mixing and digital modulation. Data compression and reduction ideas are illustrated with real examples and multiplexing techniques are introduced. The module concludes with a discussion of basic antenna principles, link gain, and applications to radar.</p>			
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics (Single and Joint)			
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 Co-ordinator:	Dr P Cruickshank			
Lecturer(s)/Tutor(s):	Dr P Cruickshank			

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PH4027 Optoelectronics and Nonlinear Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Tue, Thu, 3.00 pm Fri			
<p>The module provides an introduction to the basic physics underpinning optoelectronics and nonlinear optics, and a perspective on contemporary developments in the two fields. The syllabus includes: an overview of optoelectronic devices and systems; optical modulators; acousto-optics; Bragg and Raman-Nath; propagation of light in anisotropic media; electro-optics; waveguide and fibre optics; modes of planar guides; nonlinear optics; active and passive processes in second and third order; second harmonic generation; phase matching; coupled wave equations; parametric oscillators; self-focusing and self-phase-modulation; optical bistability; phase conjugation; solitons; Rayleigh; Raman and Brillouin scattering.</p>				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics Undergraduate Programmes.			
Pre-requisite(s):	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 Co-ordinator:	Prof I D W Samuel			
Lecturer(s)/Tutor(s):	Prof I D W Samuel, Dr M Mazilu			

PH4028 Advanced Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon even Mon, Tue, Thu, 2.00 pm Fri			
<p>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.</p> <p>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.</p>				
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: 2 lectures and some tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr B Lovett			
Lecturer(s)/Tutor(s):	Dr B Lovett			

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PH4031 Fluids			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am even Mon, Tue, Thu, 2.00 pm odd Mon		
<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:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics Two of PH4031, AS4011, AS4012, AS4025, AS4015 compulsory for Astrophysics BSc Two of PH4031, AS4025, AS4015 compulsory for Astrophysics MPhys		
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 Co-ordinator:	Prof M Jardine		
Lecturer(s)/Tutor(s):	Prof M Jardine		

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PH4032 Special Relativity and Fields			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	3.00 pm Tue, 4.00 pm Tue, Fri		
The module analyses classical fields in physics such as the electromagnetic field. Fields are natural ingredients of relativity, because they serve to communicate forces with a finite velocity (the speed of light). The module covers the tensor formalism of special relativity, relativistic dynamics, the Lorentz force, Maxwell's equations, retarded potentials, symmetries and conservation laws, and concludes with an outlook to general relativity.			
Programme module type:	Compulsory for Theoretical Physics, Theoretical Physics and Mathematics Optional for Astrophysics, Physics, Physics and Mathematics		
Pre-requisite(s):	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 Co-ordinator:	Dr N Korolkova		
Lecturer(s)/Tutor(s):	Dr N Korolkova		

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PH4034 Laser Physics 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	9.00 am Mon, Wed, Fri			
This module presents a basic description of the main physical concepts upon which an understanding of laser materials, operations and applications can be based. The syllabus includes: basic concepts of energy-level manifolds in gain media, particularly in respect of population inversion and saturation effects; conditions for oscillator stability in laser resonator configurations and transverse and longitudinal cavity mode descriptions; single longitudinal mode operation for spectral purity and phase locking of longitudinal modes for the generation of periodic sequences of intense ultrashort pulses (i.e. laser modelocking); illustrations of line-narrowed and modelocked lasers and the origin and exploitability of intensity-induced nonlinear optical effects.				
Programme module type:	Optional for Astrophysics, Physics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics			
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 Co-ordinator:	Dr F Koenig			
Lecturer(s)/Tutor(s):	Dr F Koenig			

PH4035 Principles of Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 3.00 pm even Tue			
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 Co-ordinator:	Dr F Koenig			
Lecturer(s)/Tutor(s):	Dr F Koenig			

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PH4036 Physics of Music			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	12.00 noon Mon, Tue, Thu		
<p>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.</p>			
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 Co-ordinator:	Dr J Kemp		
Lecturer(s)/Tutor(s):	Dr J Kemp		

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PH4037 Physics of Atoms			
SCOTCAT Credits:	10	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	This module is expected to run every year from 2013/14, and is intended for students who started their honours programme in the School in 2012/13 and later.		
Planned timetable:	11.00 am Tue, Thu		
This module provides a rational basis to the identification of atomic energy states and the various interactions of electrons within atoms. The syllabus includes: electron cloud model of an atom; electron spin and magnetic moment; spin-orbit interactions; one, two and many-electron systems; selection rules and line intensities for electric-dipole transitions; Lande g-factors; weak Zeeman and strong Paschen-Back magnetic field effects; hyperfine structure and Lamb shifts.			
Programme module type:	Compulsory for Physics, Astrophysics, Theoretical Physics, Chemistry and Physics MSci Optional for Physics and Mathematics, Theoretical Physics and Mathematics		
Pre-requisite(s):	PH2011, PH2012, [MT2001 or (MT2501 and MT2503)], PH3061, PH3062	Anti-requisite(s):	PH4021
Learning and teaching methods and delivery:	Weekly contact: 2 lectures or tutorials.		
	Scheduled learning: 22 hours	Guided independent study: 78 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 Co-ordinator:	Dr D Cassettari		
Lecturer(s)/Tutor(s):	Dr D Cassettari, Dr P Wahl, Dr G Bruce		

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PH4038 Lagrangian and Hamiltonian Dynamics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
Availability restrictions:	This module is intended for students who started their honours programme in the School in 2012/13 and later.		
Planned timetable:	10.00 am odd Mon, Tue, Thu, 2.00 pm even Fri		
The module covers the foundations of classical mechanics as well as a number of applications in various areas. Starting from the principle of least action, the Lagrangian and Hamiltonian formulations of mechanics are introduced. The module explains the connection between symmetries and conservation laws and shows bridges between classical and quantum mechanics. Applications include the central force problem (orbits and scattering) and coupled oscillators.			
Programme module type:	Compulsory for Astrophysics MPhys, Physics MPhys, Theoretical Physics Optional for Astrophysics BSc, Chemistry and Physics MSci, Physics BSc, Physics and Mathematics One of PH4038 and MT4507 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)])	Anti-requisite(s):	MT4507
Learning and teaching methods and delivery:	Weekly contact: 2 or 3 lectures and some tutorials		
	Scheduled learning: 26 hours	Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Dr B Braunecker		
Lecturer(s)/Tutor(s):	Dr B Braunecker		

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PH4039 Solid State Physics			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	11.00 am Wed, Fri, 2.00 pm Fri		
This module is intended to show how the various thermal and electrical properties of solids are related to the nature and arrangement of the constituent atoms in a solid. For simplicity, emphasis is given to crystalline solids. The module examines: symmetry properties of crystals; common crystalline structures; the behaviour of waves in crystals; waves of atomic motion, leading to thermal properties; electronic energy states: conductors, insulators, semiconductors; electrical properties arising from the wave nature of electrons; examples of the fundamental theory applied to typical solids such as simple metals, silicon and other semiconductors, and magnetic materials.			
Programme module type:	Compulsory for Physics, Theoretical Physics, Chemistry and Physics, 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)]). PH3012 or CH3717, PH3061 or CH3712	Anti-requisite(s):	
Co-requisite(s):	PH3061 unless taken previously	Required for:	PH5014
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 Co-ordinator:	Prof S Lee		
Lecturer(s)/Tutor(s):	Prof S Lee		

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PH4040 Nuclear and Particle Physics (Extended)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students on the Physics and Logic and Philosophy of Science (to be Physics and Philosophy), and Physics and Computer Science programmes.			
Planned timetable:	12.00 noon Wed and Fri, 10.00 am Wed, occasional 10 am Fri			
<p>The first aim of this module is to describe in terms of appropriate models, the structure and properties of the atomic nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: nuclear sizes, binding energy, spin dependence of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; spin-orbit coupling; energetics of betadecay, alpha-decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks, and ideas that go beyond the standard model. The second aim of this module is to develop research skills, and oral and written communication skills in science. Participants will be given training in the use of bibliographic databases, use of the scientific literature, oral and written communication skills, and will develop these skills through structured assignments.</p>				
Programme module type:	Compulsory for Physics and Logic and Philosophy of Science (to be Physics and Philosophy), and Physics and Computer Science			
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	
Co-requisite(s):		Required for:		
Learning and teaching methods and delivery:	Weekly contact: 2 x lectures (x 11 weeks) plus 6 further lectures, 4 tutorials, 1 workshop and 2 hours of giving and evaluating tasks.			
	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:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr A Kohnle			
Lecturer(s)/Tutor(s):	Dr A Kohnle, Dr B D Sinclair, and others			

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PH4105 Physics Laboratory 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu		
The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instil an appreciation of the significance of experiments and their results. The module consists of sub-modules on topics such as solid state physics, optics, interfacing, and signal processing.			
Programme module type:	Compulsory for Physics Optional for Astrophysics, Theoretical Physics, Physics and Mathematics, Theoretical Physics and Mathematics		
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 Co-ordinator:	Dr C Rae		
Lecturer(s)/Tutor(s):	Dr C Rae and others		

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PH4111 Physics Project (BSc)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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. 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 Single Honours Physics BSc, this or the other subject's project module for Joint Honours BSc Physics and Logic and Philosophy of Science, Physics and Computer Science,		
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:	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.		
	Scheduled learning: 140 hours	Guided independent study: 160 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 Co-ordinator:	Dr P King		
Lecturer(s)/Tutor(s):	School staff		

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PH4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the final year of the Honours Programme on a joint honours BSc degree involving this School, and who have completed the Letter of Agreement. No student may do more than one project module.			
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, covering both physics and one of computing, mathematics, and philosophy. The topic and area of research should be chosen in consultation with the supervisors in the two schools in order to determine that the student has access to resources as well as a clear plan of preparation. The project aims to develop students' skills in searching the literature in physics and their other discipline, 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 related to the theme of the project. There is no specific syllabus for this module. 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 members supervising the project and usually also by other members of a research team.</p>				
Programme module type:	Optional for students on Joint Honours BSc undergraduate degrees in the School of Physics & Astronomy			
Pre-requisite(s):	A Letter of Agreement			
Anti-requisite(s):	AS4103, AS5101, PH4111, PH5101, PH5103 or 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 per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

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PH5002 Foundations of Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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			
	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):	UG - PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]) PH3061 and PH3062. PG - Relevant Quantum Mechanics			
Required for:	Recommended, but not required, for PH5004			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr K Wan			
Lecturer(s)/Tutor(s):	Dr K Wan			

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PH5003 Group Theory			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
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		
	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):	UG - PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3061 and PH3062. PG - Relevant undergraduate mathematics and physics.		
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 Co-ordinator:	Prof J Cornwell		
Lecturer(s)/Tutor(s):	Prof J Cornwell		

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PH5004 Quantum Field Theory				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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			
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.				
Programme module type:	Compulsory for Theoretical Physics Optional for Astrophysics MPhys, Physics MPhys, 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)]), PH3012, PH3061, PH3062 and PH4038 or MT4507. PG - Relevant undergraduate mathematics and physics			
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: 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 = 90%, Coursework = 10%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr J Keeling			
Lecturer(s)/Tutor(s):	Dr J Keeling			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5005 Laser Physics 2				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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			
	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: 44 hours		Guided independent study: 106 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 Co-ordinator:	Dr B Sinclair			
Lecturer(s)/Tutor(s):	Prof M Dunn, Dr L O'Faolain, Dr B Sinclair, Dr T Brown			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5011 General Relativity				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	9.00 am Wed, Fri, 3.00 pm Thu			
	This module covers: inertial frames, gravity, principle of equivalence, curvature of spacetime; basic techniques of tensor analysis; Riemannian spaces, metric tensor, raising and lowering of indices, Christoffel symbols, locally flat coordinates, covariant derivatives, geodesics, curvature tensor, Ricci tensor, Einstein tensor; fundamental postulates of general relativity: spacetime, geodesics, field equations, laws of physics in curved spacetime; distances, time intervals, speeds; reduction of equations of general relativity to Newtonian gravitational equations; Schwarzschild exterior solution, planetary motion, bending of light rays, time delays; observational tests of general relativity; Schwarzschild interior solution, gravitational collapse, black holes.			
Programme module type:	Optional for Astrophysics MPhys, Physics MPhys, Theoretical Physics, Chemistry and Physics, Theoretical Physics and Mathematics			
Pre-requisite(s):	UG - PH3081 or PH3082, PH3081 or PH3082 or [MT2003 or MT2506 and MT2507]), Recommended PH4038 and PH4032. PG - Relevant mathematics and physics			
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 Co-ordinator:	Dr H Zhao			
Lecturer(s)/Tutor(s):	Dr H Zhao, Dr M Dominik			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5012 Quantum Optics			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School		
Planned timetable:	11.00 am Mon,Tue ,Thu		
	Quantum optics is the theory of light that unifies wave and particle optics. Quantum optics describes modern high-precision experiments that often probe the very fundamentals of quantum mechanics. The module introduces the quantisation of light, the concept of single light modes, the various quantum states of light and their description in phase space. The module considers the quantum effects of simple optical instruments and analyses two important fundamental experiments: quantum-state tomography and simultaneous measurements of position and momentum.		
Programme module type:	Optional for Astrophysics 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)]), PH3061, PH3062, PH4028. PG - Relevant quantum mechanics and mathematics		
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 Co-ordinator:	Dr N Korolkova		
Lecturer(s)/Tutor(s):	Dr F Koenig, Dr N Korolkova		

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5014 The Interacting Electron Problem in Solids				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	4.00 pm Mon, Tue, Thu			
<p>The aim of this module is to give an overview of developments in modern condensed matter physics. The difficulties of a full quantum mechanical treatment of electrons with strong interactions will be discussed. Common existing approaches such as the Hubbard and t-J models and Fermi liquid theory will be compared. It will be shown that, although microscopic models can explain aspects of magnetism, they have little chance of capturing many other features of the fascinating low-energy physics of these systems. Instead, we introduce the principle of emergence, and show how it suggests radically new approaches to the problem of complexity in condensed matter physics and beyond. In this module, formal lectures will be combined with reading assignments, and the assessment will be based on marked homework together with an oral presentation followed by questions.</p>				
Programme module type:	Optional for Astrophysics 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)]), PH4039, PH3012, PH3061, PH3062. PG - Relevant solid state physics, quantum mechanics and mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, Presentation plus Oral Examination = 50%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr P Wahl			
Lecturer(s)/Tutor(s):	Dr P Wahl, Prof A Mackenzie			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5015 Applications of Quantum Physics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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			
	<p>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.</p>			
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)]), PH3061, PH3062. PG - Relevant physics and mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and a further 2 x 1-hour 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 = 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 Co-ordinator:	Dr D Cassettari			
Lecturer(s)/Tutor(s):	Dr D Cassettari, Dr M Mazilu			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5016 Biophotonics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
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			
	<p>The module will expose students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS. Two thirds of the module will be taught as lectures, including guest lectures by specialists, with the remaining third consisting of problem-solving exercises, such as writing a specific news piece on a research paper, assessed tutorial sheets and a presentation. A visit to a biomedical research laboratory using various photonics methods will also be arranged.</p>			
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)]), PH4034 or PH4035. PG - Relevant physics and mathematics			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and some tutorials.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7			
Module Co-ordinator:	Dr T Brown			
Lecturer(s)/Tutor(s):	Dr T Brown, Prof M C Gather, Dr C Penedo-Esteiro			

PH5023 Monte Carlo Radiation Transport Techniques				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Academic year:	2015/6 & 2016/7			
Planned timetable:	2.00 pm Mon, Tue, Fri			
	<p>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.</p>			
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 = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available - laboratory based			
Module Co-ordinator:	Dr K Wood			
Lecturer(s)/Tutor(s):	Dr K Wood			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5024 Surfaces, Symmetry, and Topology in Condensed Matter Physics			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to those in the final year of an MPhys programme		
Planned timetable:	10.00 am Tue, Wed, Thu		
<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 programmes		
Pre-requisite(s):	PH3061, PH3062, (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]), PH3080, PH4037, PH4039		
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 = 40%, Coursework = 60%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	No Re-Assessment available - assignment based		
Module Co-ordinator:	Dr P King		
Lecturer(s)/Tutor(s):	Dr P Wahl, Dr P King		

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5101 Physics Project (MPhys)			
SCOTCAT Credits:	60	SCQF Level 11	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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. The main project is preceded by a pre-project report on a topic which is normally related to the theme of the project. 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:	<p>Weekly contact: Project students work "full-time" on their MPhys project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in research labs in the School, where members of research teams will provide supervision ranging from safety cover to assistance with equipment and discussion of interpretation of results – it is expected that the 40 hours a week will be primarily in this environment.</p>		
	Scheduled learning: 300 hours	Guided independent study: 300 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>		
	<p>As used by St Andrews: Coursework (Review essay, Report, and Oral Examination) = 100%</p>		
Re-Assessment pattern:	No Re-Assessment available - Final year project		
Module Co-ordinator:	Dr P King		
Lecturer(s)/Tutor(s):	School staff		

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5103 Project in Theoretical Physics (60)				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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 for 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>The main project is preceded by a pre-project report on a topic which is normally related to the theme of the project. 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>				
Programme module type:	Compulsory for Theoretical Physics Either PH5103 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, 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:	<p>Weekly contact: Project students should spend all their time in semester 2 working on the project. All students must meet weekly with their project supervisor, and attend fortnightly meetings with their peer-support group. Most of their time will be spent working on theoretical physics in an independent fashion, though with the opportunity to discuss things with their supervisor face to face or electronically. In addition, all theoretical physics project students are encouraged to attend the fortnightly meeting theoretical physics research seminars.</p>			
	Scheduled learning: 28 hours	Guided independent study: 572 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, oral examination) = 100%</p>			
Re-Assessment pattern:	No Re-Assessment available - Final year project			
Module Co-ordinator:	Dr J Keeling			
Lecturer(s)/Tutor(s):	School staff			

Physics & Astronomy - Honours Level - 2015/6 - October 2015

PH5183 Photonics Applications			
SCOTCAT Credits:	15	SCQF Level 11	Semester: 1
Academic year:	2015/6		
Availability restrictions:	This module is intended for students in the final year of an MPhys or MSci programme involving the School, for those in the MSc in Photonics and Optoelectronic Devices MSc, and for those on the EngD degree in Photonics.		
Planned timetable:	9.00 am Mon, Wed, Fri, 11.00 am Wed, Fri, 12.00 noon Mon, Tue, Thu Depending on options taken		
<p>Students on this module choose to do two of the following three sections:</p> <p>Microphotonics and Plasmonics:This covers the Bragg effect, multilayer mirrors, defects causing confined cavity states, periodicity leading to bandstructure, scaling of bandstructure in reduced frequency, Bloch modes and photonic bandgap. It then considers photonic crystal waveguides, photonic crystal fibres, and supercontinuum generation in photonic crystal fibres. Plasmonics is based on oscillations of the free electronics in a metallic material. Resonances of Plasmons are the basis for a new class of materials called 'Metamaterials'. These are compared with photonic crystals. Applications include super-resolution imaging, optical cloaking, sensing, and surface enhanced Raman scattering.</p> <p>Biophotonics:This will introduce students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS.</p> <p>Optical Trapping and Atom Optics:Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this course we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The material includes optical cooling and trapping of atoms and ions, Fermi gases, studies of Bose-Einstein condensation, and matter-wave interferometry.</p> <p>Students must not cover Biophotonics in both this module and PH5016/PH5264, and must not cover Optical Trapping and Atom Optics in both this module and PH5015/PH5267.</p>			
Programme module type:	Optional for Astrophysics MPhys, Physics and Mathematics BSc, Physics MPhys, Physics and Chemistry, Theoretical Physics MPhys		
Pre-requisite(s):	UG - PH2011, PH2012, MT2001 or (MT2501 and MT2503), (PH3081 or PH3082 or [MT2003 or (MT2506 and MT2507)]) PH3007. If Optical Trapping and Atom Optics option is chosen then PH3061, PH3062, and PH4037 are expected. PG - Relevant physics and mathematics.		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and occasional tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%		
Re-Assessment pattern:	Oral Re-Assessment, capped at grade 7		
Module Co-ordinator:	Dr T Brown		
Lecturer(s)/Tutor(s):	Dr T Brown, Dr J C Penedo, Dr M Mazilu, Dr D Cassettari, Dr L O'Faolain, and Dr A Di Falco		

School of Psychology & Neuroscience

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.

Neuroscience (PN) Modules

PN3312 Pharmacology			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
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):	BL2101 or BL2104	Anti-requisite(s):	BL3312
Learning and teaching methods and delivery:	Weekly contact: Lectures and tutorials: 27 hours in total, Usually 3 lectures or tutorials (x 11 weeks) Practicals: 3 x 1-hour and 1 x 2-hours during the semester.		
	Scheduled learning: 32 hours	Guided independent study: 165 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 Co-ordinator:	Dr G Doherty		
Lecturer(s)/Tutor(s):	Dr A Butler, Dr G Doherty, Dr G B Miles, Dr G Prescott, Dr R Ramsay, Dr K Spencer, Dr L Aitken		

Psychology & Neuroscience - Honours Level - 2015/6 - August 2015

PN3313 Neuroscience			
SCOTCAT Credits:	20	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
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):	BL2101	Anti-requisite(s):	BL3313
Required for:	PN4230, PN4231, BL4232, PN4234, PN4235		
Learning and teaching methods and delivery:	Weekly contact: 29 hours of lectures or tutorials in total, 2 x 3-hour practicals and 4 hours of labs during the semester.		
	Scheduled learning: 39 hours	Guided independent study: 161 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 Co-ordinator:	Dr G Miles		
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Prof K Sillar, Dr S Pulver, Dr G Miles, Dr W Heitler, Dr W Li, Dr G Doherty		

Psychology & Neuroscience - Honours Level - 2015/6 - August 2015

PN4230 Neurodegeneration and Aging			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6		
Availability restrictions:	BSc Hons Neuroscience students have priority on this module		
Planned timetable:	Lectures: 3.00 pm - 4.00 Mon, 1.00 pm - 2.00 pm Thu. Practicals to be arranged.		
<p>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.</p>			
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.		
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 Co-ordinator:	Dr G Doherty		
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Dr G Doherty, Dr M Andrews		

Psychology & Neuroscience - Honours Level - 2015/6 - August 2015

PN4231 Neuromodulation			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
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.		
<p>Until recently the nervous system was viewed as a black and white world in which neuronal networks carried out tasks using fast chemical synaptic transmission to produce an appropriate network output. However the output of neuronal networks is not fixed but instead is modifiable under different behavioural or developmental circumstances. A major source of flexibility in the output neuronal networks derives from neuromodulation; a process in which the basic operation of the networks remains the same but the strengths of synaptic connections and the integrative electrical properties of neurons in the networks are changed by the actions of a range of neuromodulators. This module explores the diverse range of neuromodulatory mechanisms and outlines their importance in information processing in the nervous system.</p>			
Programme module type:	Optional for Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor (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 Co-ordinator:	Dr S Pulver		
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7		
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 Co-ordinator:	Dr W Li		
Lecturer(s)/Tutor(s):	Dr W Li, Dr S Pulver, Dr G Miles		

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PN4235 Motoneurons: From Physiology to Pathology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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.		
<p>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.</p>			
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 Co-ordinator:	Dr G Miles		
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7			
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.			
Anti-requisite(s):	BL4200, BL4201, PS4050			
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 Co-ordinator:	Dr G H Doherty			
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7			
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	Lectures: 9-11.00 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: 33 hours		Guided independent study: 117 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 Co-ordinator:	Dr M W Oram			
Lecturer(s)/Tutor(s):	Dr M W Oram, R Spence			

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PS3022 Research Design and Analysis 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	Lectures 9-11.00 am Mon. 1-hour practical: two of Mon 1-2, 2-3, 3-4, 4-5 (2 x1-hour practical for weeks 1-5).			
This module is designed to provide a more advanced understanding of research design and statistics. Emphasis will be placed on the acquisition of analytical skills covering typical research situations encountered in the behavioural sciences. The syllabus will include advanced analysis of variance, multivariate statistics and non-parametric statistics, as well as training in computerised data analysis and presentation.				
Programme module type:	Compulsory for Single and Joint Honours Psychology degrees with BPS recognition, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory for BPS Recognition. Optional for Joint Honours Psychology without BPS recognition.			
Pre-requisite(s):	PS3021, 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 Co-ordinator:	Dr K Mavor			
Lecturer(s)/Tutor(s):	Dr K Mavor, Dr S Pehrson, P Gardner, R Spence			

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PS3031 Conceptual Issues and Theoretical Perspectives			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser		
Planned timetable:	Lectures: 9.00-11.00 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 Co-ordinator:	Mr P L Gardner		
Lecturer(s)/Tutor(s):	Mr P L Gardner		

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PS3032 Assessment in Clinical Psychology			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser		
Planned timetable:	Lectures: 9-11.00 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 Co-ordinator:	Dr D Balslev		
Lecturer(s)/Tutor(s):	Dr D Balslev		

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PS3033 Developmental Psychology			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 2
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser		
Planned timetable:	Lectures: 9-11.00 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 Co-ordinator:	Dr S Gerson		
Lecturer(s)/Tutor(s):	Dr S Gerson		

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PS3034 Social Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures 9-11.00 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 Co-ordinator:	Dr N Tausch			
Lecturer(s)/Tutor(s):	Dr N Tausch			

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PS3035 Cognitive and Behavioural Neuroscience			
SCOTCAT Credits:	10	SCQF Level 9	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser		
Planned timetable:	Lectures 9-11.00 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 Co-ordinator:	Dr I Jentsch		
Lecturer(s)/Tutor(s):	Dr I Jentsch		

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PS3036 Evolutionary and Comparative Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures 9-11.00 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 and Joint Honours Psychology. Either PS3035 or PS3036 is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
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 Co-ordinator:	Dr C Hobaiter			
Lecturer(s)/Tutor(s):	Dr C Hobaiter			

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PS3037 Perception				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures 9.00 am -11.00 am Tue. 4 x 1.5-hour practical: one of Tue 2.00 pm - 3:30pm, 3:30pm - 5.00 pm (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 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 for 4 weeks (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 Co-ordinator:	Prof J Harris			
Lecturer(s)/Tutor(s):	Prof J Harris			

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PS3038 Cognition				
SCOTCAT Credits:	10	SCQF Level 9	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9-11.00 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 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 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 Co-ordinator:	Dr T Otto			
Lecturer(s)/Tutor(s):	Dr T Otto			

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PS4040 Psychology Review			
SCOTCAT Credits:	10	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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 and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory for 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 Co-ordinator:	Dr R Sprengelmeyer		
Lecturer(s)/Tutor(s):	Dr R Sprengelmeyer		

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PS4050 Psychology Project (30)			
SCOTCAT Credits:	30	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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:	Compulsory for Single and Joint Honours Psychology with BPS recognition. BL4200 or BL4201 or PS4050 are compulsory for Neuroscience. BL4200 or PS4050 is compulsory for Psychology with Biology. Compulsory for BPS Recognition.		
Pre-requisite(s):	PS4040, PS3021 and PS3022. Average grade of 11 or better in PS2001 and PS2002 from the first sitting or permission of the Psychology Honours Adviser	Anti-requisite(s):	PN4299, PS4299
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 Co-ordinator:	Dr R Sprengelmeyer		
Lecturer(s)/Tutor(s):	Dr R Sprengelmeyer		

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PS4060 Review Essay			
SCOTCAT Credits:	15	SCQF Level 10	Semester: Whole Year
Academic year:	2015/6 & 2016/7		
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
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 Co-ordinator:	Dr E M Bowman		
Lecturer(s)/Tutor(s):	TBC		

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PS4065 Vision: from Neurons to Awareness			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2016/7		
Availability restrictions:	Available only to students in the second year of the Honours Programme		
Planned timetable:	To be arranged.		
<p>The aim of the module is to develop an advanced understanding of the psychological processes involved in visual perception. The module will illustrate how a full understanding of perception requires scientific study at a number of levels, from the whole human, moving apparently effortlessly through our complex and sometimes dangerous environment, through neuropsychological studies exploring what happens when selective damage occurs, to the functioning of the individual neurons that underlie our ability to perceive an apparently continuous, colourful, three-dimensional world.</p> <p>The module will cover selected topics that illustrate the extraordinary range of problems our perceptual systems solve in the real world, including: active vision (how do our visual systems allow us to function fast enough to drive a car, play fast-action sports), three-dimensional vision (why and how do we perceive the world as three-dimensional), material perception (how do we perceive things as dirty, smooth, shiny, patterned), visual consciousness (is perception necessarily conscious, and is it possible to explore consciousness scientifically?).</p>			
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, 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: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-Assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module Co-ordinator:	Prof J Harris		
Lecturer(s)/Tutor(s):	Prof J Harris		

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PS4069 Group Behaviour			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	9.00 am - 11.00 am Thu.		
<p>This module 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: 33 hours	Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-Assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module Co-ordinator:	Prof S Reicher		
Lecturer(s)/Tutor(s):	Prof S Reicher		

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PS4071 Behavioural Neuroscience				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module Co-ordinator:	Dr E M Bowman			
Lecturer(s)/Tutor(s):	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:	2015/6 & 2016/7			
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 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.				
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module Co-ordinator:	Dr B Dritschel			
Lecturer(s)/Tutor(s):	Dr B Dritschel			

PS4079 Sex Differences and Gender Development				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	11.00 am - 1.00 pm Fri			
This advanced-level module will examine the evidence for sex differences in human behaviour and explore how gender develops across the lifespan. Students will learn how hormones, such as testosterone and estrogen, influence brain function and behaviour in non-human animals and will apply this knowledge to human data. Example topics include sexual behaviour (including sexual orientation), aggression, memory, sex differences in mental health, and the evolution of sex differences. Teaching will be based on student-led seminars with supporting lectures. Emphasis will be placed on critical evaluation and the ability to relate scientific data to broader debates regarding sex differences in behaviour.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, 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: 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:	Coursework = 100%			
Module Co-ordinator:	Dr G Brown			
Lecturer(s)/Tutor(s):	Dr G Brown			

PS4083 Psychology of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Mon			
	<p>The aim of the module is to introduce students to psychological processes underlying music perception, cognition, and performance. The relationship between musical phenomena and mental functions will be illustrated. The module will cover different aspects of music perception including psychoacoustics and sound perception, music cognition including music memory emotion and expectancies, skilled performance as well as abnormalities in music perception and performance. The module will be taught in the form of seminars including student presentations. Emphasis will be placed on the development of critical thinking and the ability to relate conceptual debates in psychology to issues in the real world.</p>			
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, 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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module Co-ordinator:	Dr I Jentsch			
Lecturer(s)/Tutor(s):	Dr I Jentsch			

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PS4084 Psychology of Art: Aesthetics and Individual Differences in Visual Function				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Wed			
<p>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.</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: 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:	Coursework = 100%			
Module Co-ordinator:	Dr D Vishwanath			
Lecturer(s)/Tutor(s):	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:	2015/6			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 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 Co-ordinator:	Dr C Cross			
Lecturer(s)/Tutor(s):	Dr C Cross			

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PS4086 Origins and Evolution of Mind Reading (Theory of Mind)				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2016/7			
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:	11.00 am - 1.00 pm Tue TBC			
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: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module Co-ordinator:	Dr J-C Gomez			
Lecturer(s)/Tutor(s):	Dr J-C Gomez			

PS4089 Neural Basis of Episodic Memory				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
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, and Neuroscience.			
Pre-requisite(s):	Average grade of 11 or better from the first sitting of PS2001 and PS2002 or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Written Take Home Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr J A Ainge			
Lecturer(s)/Tutor(s):	Dr J A Ainge			

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PS4090 Face Perception and Human Attraction				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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:	Optional for Single and Joint Honours Psychology, and 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: 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:	Coursework = 100%			
Module Co-ordinator:	Prof D Perrett			
Lecturer(s)/Tutor(s):	Prof D Perrett			

PS4091 Computer-aided Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6			
Availability restrictions:	Available only to students in the second year of the Honours Programme, or the M.Res. in Psychology.			
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 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: 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:	Coursework = 100%			
Module Co-ordinator:	Dr D W Hunter			
Lecturer(s)/Tutor(s):	Dr D W Hunter			

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PS4093 The Psychology of Dementia			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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: 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:	Coursework = 100%		
Module Co-ordinator:	Dr M Ellis		
Lecturer(s)/Tutor(s):	Dr M Ellis		

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PS4094 Communicating Psychology and Neuroscience			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
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. Entry to this module is by selection following application and interview.</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	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: 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:	Coursework = 100%		
Module Co-ordinator:	Dr K Spencer		
Lecturer(s)/Tutor(s):	Dr K Spencer, Mr P L Gardner		

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PS4095 Psychopathology			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 2
Academic year:	2015/6 & 2016/7		
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: 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 = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module Co-ordinator:	Dr R Sprengelmeyer		
Lecturer(s)/Tutor(s):	Dr R Sprengelmeyer		

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PS4096 Mechanisms of Behaviour: integrating psychological and neuroscience perspectives				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	12.00 noon - 2.00 pm Tue			
<p>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.</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 (x 10 weeks), 1 practical class (x 4 weeks) plus office hour.			
	Scheduled learning: 35 hours		Guided independent study: 115 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 Co-ordinator:	Dr K Spencer			
Lecturer(s)/Tutor(s):	Dr K Spencer			

PS4097 Research Methods in Cognitive Neuroscience				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
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: 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:	Coursework = 100%			
Module Co-ordinator:	Dr D Balslev			
Lecturer(s)/Tutor(s):	Dr D Balslev, Dr T Otto, Dr J Ales, Dr G Miles			

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PS4100 The Psychology of Terrorism				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	2
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	11.00 am - 1.00 pm Thu			
This module 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.				
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: 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 = 50%, Coursework = 50%, Re-assessment applies to failed components only			
Module Co-ordinator:	Dr N Tausch			
Lecturer(s)/Tutor(s):	Dr N Tausch			

PS4101 Selves and Identities				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the second year of the Honours programme.			
Planned timetable:	9.00 am - 11.00 am Fri			
The central theme of the module is the balance between fluidity and stability in the way we define ourselves and others, personally and socially. This framing allows the possibility of exploring a range of important phenomena in personality and social psychology that are linked by that broad theme. The module is also intended to balance theoretical models of the self and social perception with practical outcomes like personal wellbeing and social change.				
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. Plus 5 hours of practical 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 = 50%, Coursework = 50%, Re-assessment applies to failed components only			
Module Co-ordinator:	Dr K Mavor			
Lecturer(s)/Tutor(s):	Dr K Mavor			

Psychology & Neuroscience - Honours Level - 2015/6 - August 2015

PS4299 Psychology Project (60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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, Neuroscience.			
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):	PS4050, PS4060, PN4299	
Learning and teaching methods and delivery:	Weekly contact: 1-hour individual supervision sessions.			
	Scheduled learning: 22 hours		Guided independent study: 578 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 Co-ordinator:	Dr R Sprengelmeyer			
Lecturer(s)/Tutor(s):	various			

PS4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	Either or Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement.			
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 all undergraduate degrees in the School of Psychology & Neuroscience.			
Pre-requisite(s):	A Letter of Agreement			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Psychology & Neuroscience - Honours Level - 2015/6 - August 2015

PS4797 Joint Project (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement.			
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 all undergraduate degrees in the School of Psychology & Neuroscience.			
Pre-requisite(s):	A Letter of Agreement			
Learning and teaching methods and delivery:	Weekly contact: As per Letter of Agreement.			
Assessment pattern:	As per Letter of Agreement.			
Re-Assessment pattern:	As per Letter of Agreement.			
Module Co-ordinator:	As per Letter of Agreement.			

Interdisciplinary (ID) Modules

ID4001 Communication and Teaching in Science				
SCOTCAT Credits:	15	SCQF Level 10	Semester:	1
Academic year:	2015/6 & 2016/7			
Availability restrictions:	Available only to final year students who have been accepted following application and interview in the preceding semester.			
Planned timetable:	Flexible			
<p>This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.</p>				
Programme module type:	Optional for degrees in the Faculty of Science who meet the appropriate criteria.			
Learning and teaching methods and delivery:	Weekly contact: Occasional tutorials and a half-day training session.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 55%, Coursework = 45%			
	As used by St Andrews: Coursework = 100% comprising: Written report on the placement (35%) Teacher's assessment of student's placement (25%) Oral presentation (30%) Project proposal (10%)			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	Dr B Sinclair			
Lecturer(s)/Tutor(s):	Dr A Naughton, Dr R Robinson, Dr F Gray, Dr J Wishart, Dr R Latham, Dr M Campbell, Dr B Sinclair, and visiting speakers			

Interdisciplinary - Honours Level - 2015/6 - August 2015

ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester: 1
Academic year:	2015/6 & 2016/7		
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 Co-ordinator:	Dr E Stoddart		
Lecturer(s)/Tutor(s):	Dr E Stoddart		

Interdisciplinary - Honours Level - 2015/6 - August 2015

ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester:	Whole Year
Academic year:	2015/6 & 2016/7			
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:	No Re-Assessment available			
Module Co-ordinator:	Dr T Hill and Dr T Raub			
Lecturer(s)/Tutor(s):	Dr T Raub			

ID5059 Knowledge Discovery and Datamining				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Academic year:	2015/6 & 2016/7			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
<p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.</p>				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Anti-requisite(s):	MT5759			
Learning and teaching methods and delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	masters-coord-cs@st-andrews.ac.uk			

